

Service Manual

ORDER No.
ARP2230

STEREO DOUBLE CASSETTE DECK RECEIVER

RX-740 KUC

RX-740S KUC

- Refer to the service manual ARP2028, RX-730/KUC type.
- This manual is applicable to the RX-740/KUC and RX-740S/KUC types.
- The RX-740S/KUC type use the same circuit as the RX-740/KUC type.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- Parts without part number cannot be supplied.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

The RX-740/KUC and RX-740S/KUC types are the same as the RX-730/KUC type with the exception of the following sections.

Mark	Symbol & Description	Part No.			Remarks
		RX-730/ KUC type	RX-740/ KUC type	RX-740S/ KUC type	
◎	FRONT assembly	AWZ2793	AWZ3469	AWZ3469	
	MULTI ROOM assembly	Non supply	Non supply	Non supply	*1
	VR IND assembly	Non supply	Non supply	Non supply	*1
	SHIELD assembly	Non supply	Non supply	Non supply	*1
	SUB TRANS assembly	.....	Non supply	Non supply	*1
	Deck button	AAD1744	AAD1795	AAD1795	
	Copy button	AAD1784	AAD1741	AAD1741	
	Function button	AAD1789	AAD1762	AAD1762	
	Station button	AAD1802	AAD1742	AAD1742	
	Spectrum analyzer panel A	AAK1918	.....	.....	
	Spectrum analyzer panel B	AAK1938	.....	.....	
	Spectrum analyzer panel	.....	AAK2156	AAK2156	
	Deck center panel B	AAK1936	AAK1972	AAK1972	
	Acrylic panel	AAK1940	.....	.....	
	PVC panel	.....	AAK2157	AAK2157	
	Door L	AAN1197	AAN1199	AAN1199	
	Door R	AAN1198	AAN1200	AAN1200	
	Front panel	AMB1653	AMB1809	AMB1809	
	Packing case	AHD1840	AHD2046	AHD2048	
	Operating instructions (English)	ARB1246	ARB1299	ARB1299	
	Operating instructions (English)	.....	.....	ARD1013	Rem, Con
	Remote control unit (CU-RX008)	AXD1141	AXD1141	.....	
	Remote control unit (CU-AV007)	.....	.....	AXD1143	*2
	Battery cover	AZN1846	AZN1846	.....	

NOTE)

*1 :The MULTI ROOM, VR IND, SHIELD and SUB TRANS assemblies of RX-740/KUC and RX-740S/KUC types are the same.

*2 :The Remote control unit (AXD1143) of RX-740S/KUC type is the same as the remote control unit of RX-730S/KUC type. Refer to pages 61-65 in the service manual (ARP2082), RX-730/KUC type.

2. PCB's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	56 × 10 ¹	561.....	RD1/4PS	⊙	⊙	⊙	J
47kΩ	47 × 10 ³	473.....	RD1/4PS	⊙	⊙	⊙	J
0.5Ω	0R5.....		RN2H	⊙	⊙	⊙	K
1Ω	010.....		RS1P	⊙	⊙	⊙	K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	562 × 10 ¹	5621.....	RN1/4SR	⊙	⊙	⊙	⊙	F
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Mark No.	Description	Parts No.	Mark No.	Description	Parts No.
⊙ FRONT ASSEMBLY (AWZ3469)			SWITCHES		
SEMICONDUCTORS			S51-75	SWITCH	ASG1034
IC101-104	OP-AMP IC	RC4558DXP	COIL		
IC105	GEQ FL DRIVER IC	LC7566	L51	AXIAL INDUCTOR	LAU220K
IC51	LOGIC IC	SN74LS05N	CAPACITORS		
IC52	LOGIC IC	SN74LS03N	C101, 102	ELECTROLYTIC CAPACIT	CEJAR33M50
IC53	TIMER/TUNER CONTROL μ-COM	PD4269	C103, 104	CERAMIC CAPACITOR	CKDYX393M16
Q101-110	TRANSISTOR	2SC1740SLN	C105, 106	AUDIO FILM CAPACITOR	CFTXA124J50
Q120	TRANSISTOR	RN1201	C107, 108	CERAMIC CAPACITOR	ACG1021
Q51, 52	TRANSISTOR	DTA143ES	C109, 110	CERAMIC CAPACITOR	CKDYX393M16
Q53, 54	TRANSISTOR	RN2201	C111, 112	CERAMIC CAPACITOR	CKDYB392K50
Q56	TRANSISTOR	DTC124ES	C113, 114	CERAMIC CAPACITOR	CKDYX153M16
Q57	TRANSISTOR	RN2201	C115, 116	CERAMIC CAPACITOR	ACG1020
Q58	TRANSISTOR	RN1201	C117, 118	CERAMIC CAPACITOR	CKDYB332K50
Q59	TRANSISTOR	RN2201	C119, 120	CERAMIC CAPACITOR	ACG1019
Q60	TRANSISTOR	2SC1740S	C121, 122	CERAMIC CAPACITOR	CCMSL820J50
Q62	TRANSISTOR	RN1203	C123	ELECTR.CAPACITOR	CEAS101M16
D101-104	DIODE	1SS252	C124	ELECTR.CAPACITOR	CEAS220M25
D107-114	DIODE	1SS252	C127, 128	ELECTR.CAPACITOR	CEAS470M16
D151-163	DIODE	1SS252	C129, 130	CERAMIC CAPACITOR	CKDYX333M25
D164, 165	ZENER DIODE	RD5.1ESB	C131	ELECTR.CAPACITOR	CEASR22M50
D166	DIODE	1SS252	C132	ELECTROLYTIC CAPACIT	CEASR15M50
D51-55	LED	AEL1077	C133, 134	CERAMIC CAPACITOR	CKDYX103M16
D56	LED (RED)	AEL1038	C135	ELECTR.CAPACITOR	CEASR22M50
D57-60	DIODE	1SS252	C136, 137	CERAMIC CAPACITOR	CKDYB332K50
D61	ZENER DIODE	RD15ESB	C138	ELECTR.CAPACITOR	CEASR22M50
D62-65	DIODE	1SS252	C139, 140	CERAMIC CAPACITOR	CKMYB102K50
D67	ZENER DIODE	RD8.2ESB2	C141	ELECTR.CAPACITOR	CEASR22M50
D68	ZENER DIODE	RD5.1ESB	C142, 143	CERAMIC CAPACITOR	CKMYB331K50
D69	DIODE	1SS252	C144	ELECTR.CAPACITOR	CEASR22M50
D70	ZENER DIODE	RD7.5ESB			
D71, 72	DIODE	1SS252			

Mark No.	Description	Parts No.
C145	CERAMIC CAPACITOR	CKMYB152K50
C147, 148	ELECTR.CAPACITOR	CEAS470M10
C149, 150	ELECTR.CAPACITOR	CEAS220M25
C151, 152	CERAMIC CAPACITOR	ACG1016
C153, 154	CERAMIC CAPACITOR	CKDYF103Z50
C51	CERAMIC CAPACITOR	CKCYX473M25
C52	ELECTR.CAPACITOR	CEAS4R7M50
C53	CERAMIC CAPACITOR	CKCYF103Z50
C54	ELECTR.CAPACITOR	CEAS100M50
C55	ELECTR.CAPACITOR	CEAS470M16
C56	CEA (47000/5.5V)	ACH1070
C57	CERAMIC CAPACITOR	CKCYX473M25
C58	ELECTR.CAPACITOR	CEAS470M16
C59	ELECTR.CAPACITOR	CEASR22M50
C60	ELECTR.CAPACITOR	CEAS100M50
C61, 62	CERAMIC CAPACITOR	ACG1020
C63	ELECTR.CAPACITOR	CEAS470M16
C64	ELECTR.CAPACITOR	CEAS100M25
C65	ELECTR.CAPACITOR	CEAS4R7M50
C68	ELECTR.CAPACITOR	CEAS100M25
RESISTORS		
VR101-110	VARIABLE RESISTOR	ACU1032
VR111	VARIABLE RESISTOR	ACS1052
R190	RESISTOR ARRAY (100K)	RA8T104J
R191	RESISTOR ARRAY (100K)	RA13T104J
R192, 193	CARBON FILM RESISTOR	RD1/4PM391J
R56	CARBON FILM RESISTOR	RD1/4PM821J
R92	CARBON FILM RESISTOR	RD1/2PM181J
R96	CARBON FILM RESISTOR	RD1/4PM562J
	Other resistors	RD1/8PM⊙⊙⊙J
OTHERS		
V102	FL TUBE	AAV1126
V51	FL TUBE	AAV1070
X51	CERAMIC RESONATOR	ASS1018
	LEAD WITH HOUSING (2P)	ADX1190
	REMOTE RECEIVER UNIT	AXX1010

Mark No.	Description	Parts No.
MULTI ROOM ASSEMBLY		
SWITCH		
S76	SLIDE SWITCH	ASH1009
CAPACITORS		
C66, 67	CERAMIC CAPACITOR	CKCYF103Z50
RESISTORS		
	All resistors	RD1/8PM⊙⊙⊙J
OTHERS		
	JACK	AKN1020
VR IND ASSEMBLY		
SEMICONDUCTOR		
D66	LED (RED)	AEL1040

SHIELD ASSEMBLY

No parts are supplied with the SHIELD assembly.

SUB TRANS ASSEMBLY

TRANSFORMER		
Δ T51	POWER TRANSFORMER	ATT1159

NOTE)
The other assemblies are the same as the assemblies of RX-730/KUC type.

Mark No.	Description	Parts No.
C145	CERAMIC CAPACITOR	CKMYB152K50
C147, 148	ELECTR.CAPACITOR	CEAS470M10
C149, 150	ELECTR.CAPACITOR	CEAS220M25
C151, 152	CERAMIC CAPACITOR	ACG1016
C153, 154	CERAMIC CAPACITOR	CKDYF103Z50
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C56	CEA (47000/5.5V)	ACH1070
C57	CERAMIC CAPACITOR	CKCYX473M25
C58	ELECTR.CAPACITOR	CEAS470M16
C59	ELECTR.CAPACITOR	CEASR22M50
C60	ELECTR.CAPACITOR	CEAS100M50
C61, 62	CERAMIC CAPACITOR	ACG1020
C63	ELECTR.CAPACITOR	CEAS470M16
C64	ELECTR.CAPACITOR	CEAS100M25
C65	ELECTR.CAPACITOR	CEAS4R7M50
C68	ELECTR.CAPACITOR	CEAS100M25

RESISTORS

VR101-110	VARIABLE RESISTOR	ACU1032
VR111	VARIABLE RESISTOR	ACS1052
R190	RESISTOR ARRAY (100K)	RA8T104J
R191	RESISTOR ARRAY (100K)	RA13T104J
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R96	CARBON FILM RESISTOR	RD1/4PM562J
	Other resistors	RD1/8PM□□□J

OTHERS

V102	FL TUBE	AAV1126
V51	FL TUBE	AAV1070
X51	CERAMIC RESONATOR	ASS1018
	LEAD WITH HOUSING (2P)	ADX1190
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Mark No.	Description	Parts No.
MULTI ROOM ASSEMBLY		
SWITCH		
S76	SLIDE SWITCH	ASH1009
CAPACITORS		
C66, 67	CERAMIC CAPACITOR	CKCYF103Z50
RESISTORS		
	All resistors	RD1/8PM□□□J
OTHERS		
	JACK	AKN1020

VR IND ASSEMBLY

SEMICONDUCTOR

D66	LED (RED)	AEL1040
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SHIELD ASSEMBLY

No parts are supplied with the SHIELD assembly.

SUB TRANS ASSEMBLY

TRANSFORMER

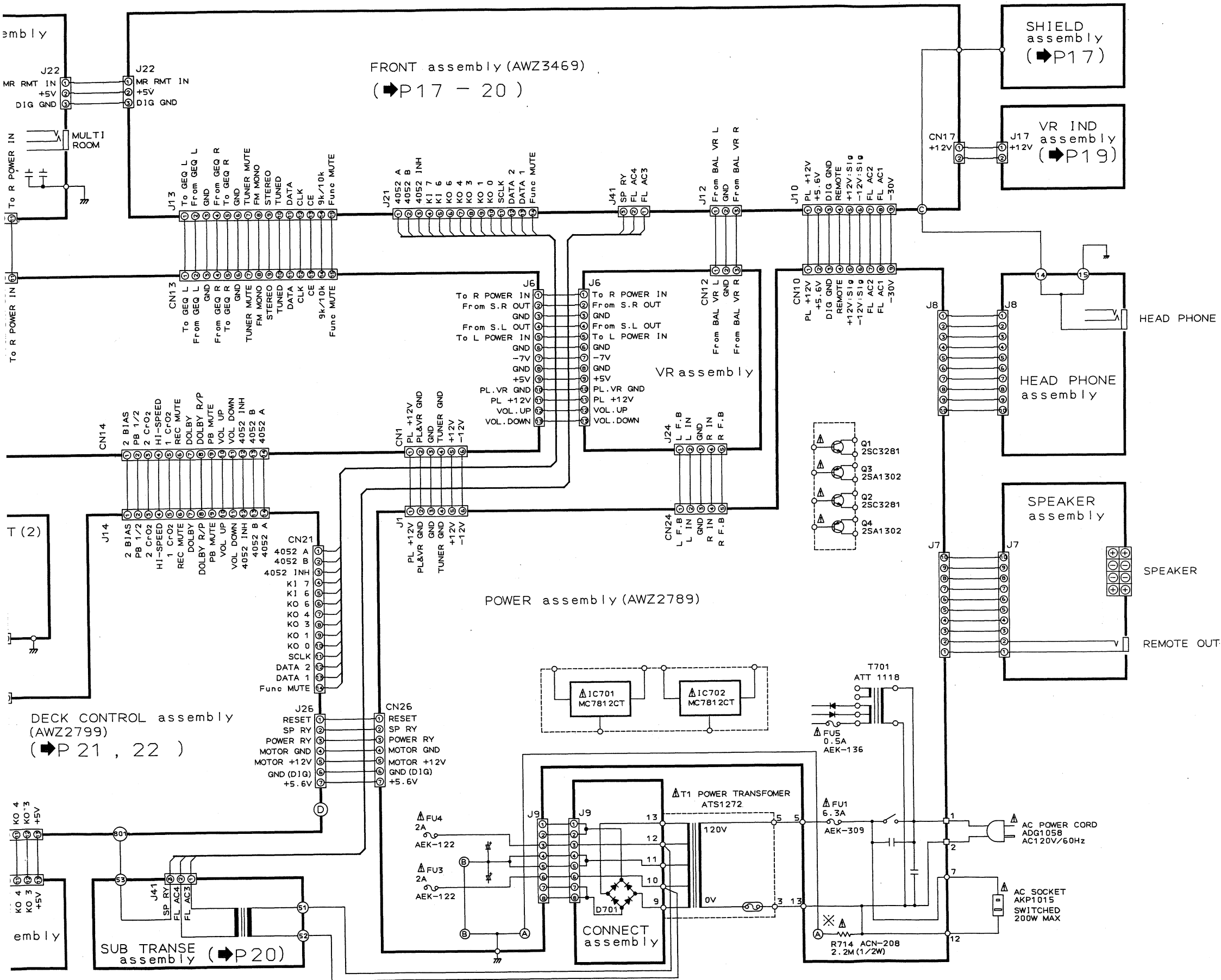
△ T51	POWER TRANSFORMER	ATT1159
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NOTE)

The other assemblies are the same as the assemblies of RX-730/KUC type.

B

D



1. RESISTORS:
Indicated in Ω , $\frac{1}{4}W$, $\frac{1}{2}W$, $\pm 5\%$ tolerance unless otherwise noted k: k Ω , M: M Ω , (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$ (M): $\pm 20\%$ tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p: pF
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
Signal voltage at (130 W + 130 W 8 Ω) output (1kHz)
DC voltage (V) at no input signal
Value in () is DC voltage at rated power.
mA: DC current at no input signal

4. OTHERS:
Signal route.
Adjusting point.
The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
marked capacitors and resistors have parts numbers.

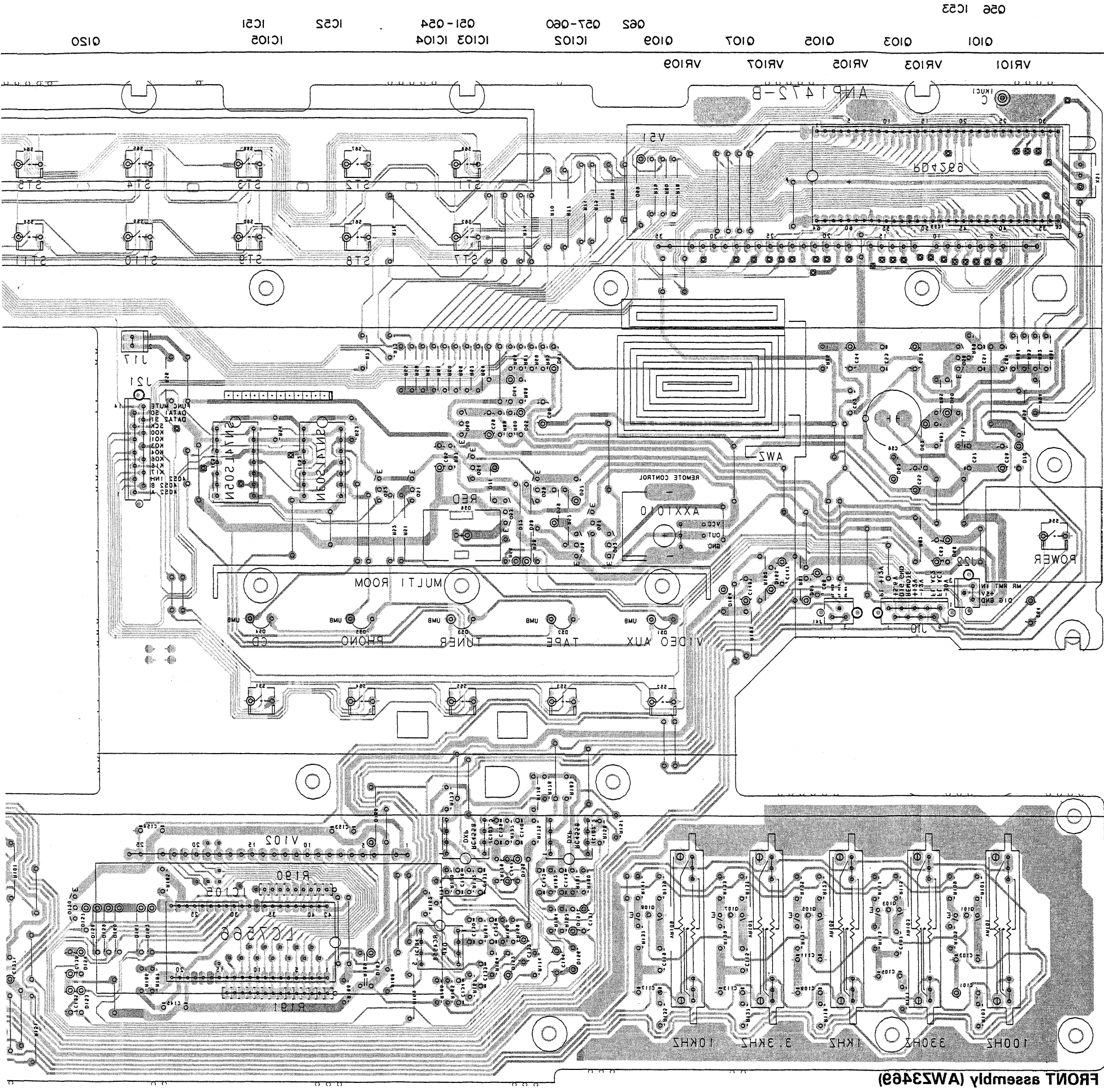
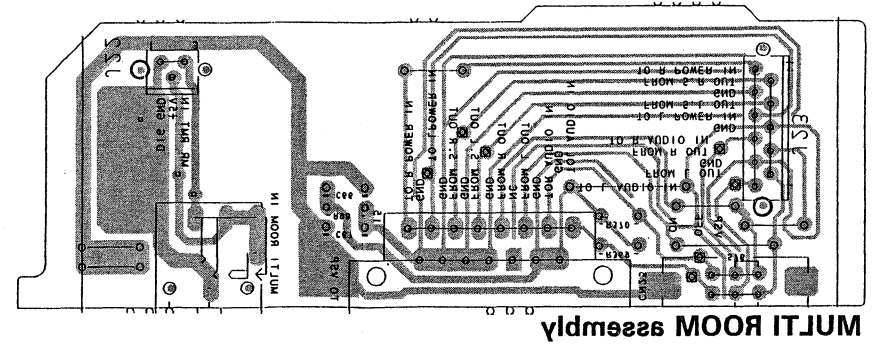
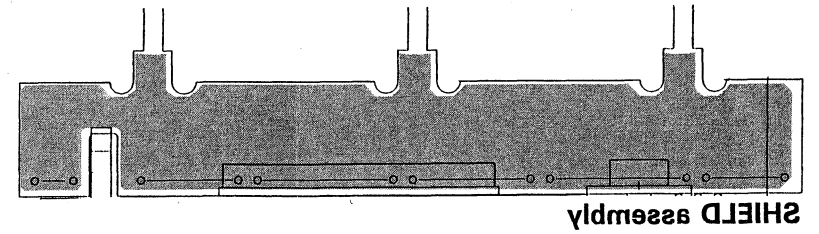
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

5. SWITCH

SIDE assembly	DECK IND assembly
S401 HEAT CUT	S851 PAUSE
A(105k)/B(102k)	S852 REC
	S853 HISPEED COPY
FRONT assembly	S854 NORMAL COPY
S51 CD	S855 DOLBY OFF-ON
S52 VIDEO/AUX	S856 RELAY
S53 TAPE	DECK 1 SW assembly
S54 PHONO	S801 1 REV
S55 TUNFR	S802 1 FWD
S56 POWER	S803 1 REV
S57 ST12	S804 1 FF
S58 ST11	S805 1 STOP
S59 ST10	DECK 2 SW assembly
S60 ST9	S806 2 REV
S61 ST8	S807 2 REV
S62 ST7	S808 2 STOP
S63 ST6	S809 2 FWD
S64 ST5	S810 2 FF
S65 ST4	HEAD PHONE assembly
S66 ST3	S601 SPEAKER
S67 ST2	A ON-OFF / B ON-OFF
S68 ST1	
S69 MEMORY	
S70 BAND	
S71 F UP	
S72 F DOWN	
S73 CLOCK ADJ	
S74 FM MONO	
S75 SET	
MULTI ROOM assembly	
S76 VSP ON-OFF	

The underline indicates the switch position.

This P.C.B. connection diagram is viewed from the foil side.



3.2 P.C.BOARDS CONNECTION DIAGRAM

A

- NOTE
1. This P.C.B connection diagram is viewed from the parts mounted side.
 2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

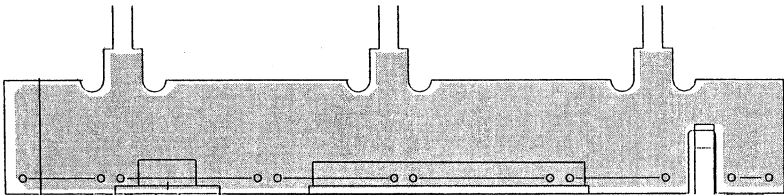
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

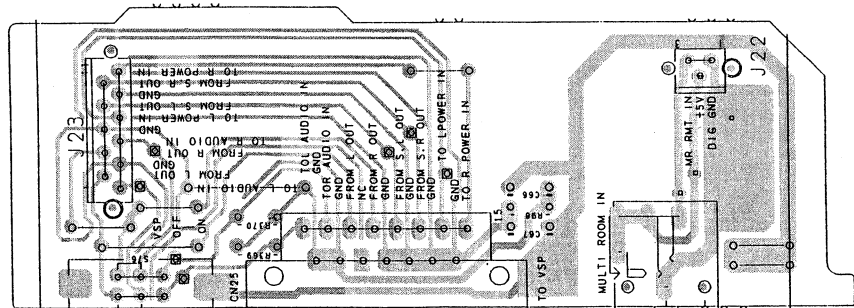
3. The capacitor terminal marked with ⊙(double circles) shows negative terminal.
4. The diode terminal marked with ⊙(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

C

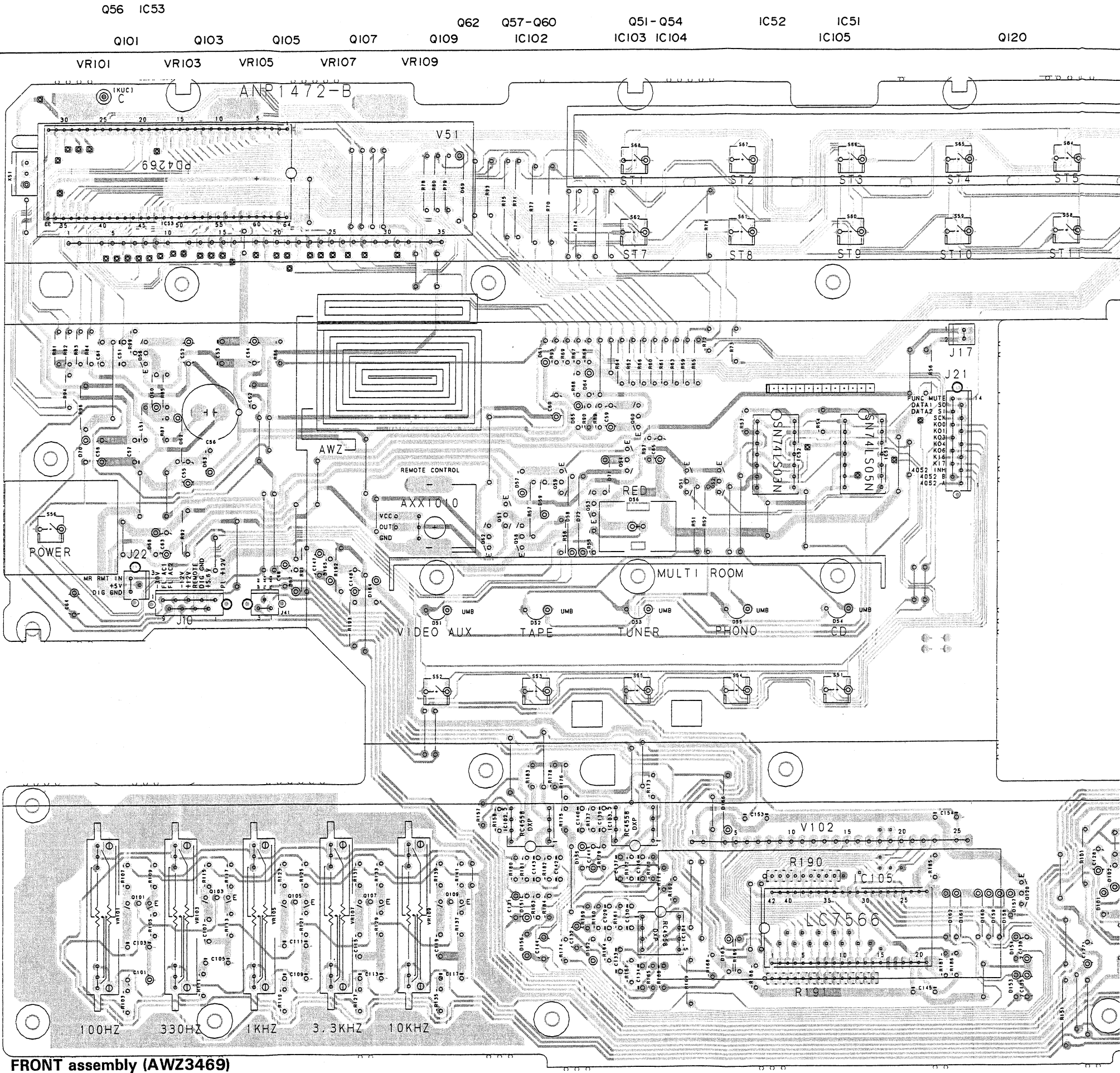


SHIELD assembly

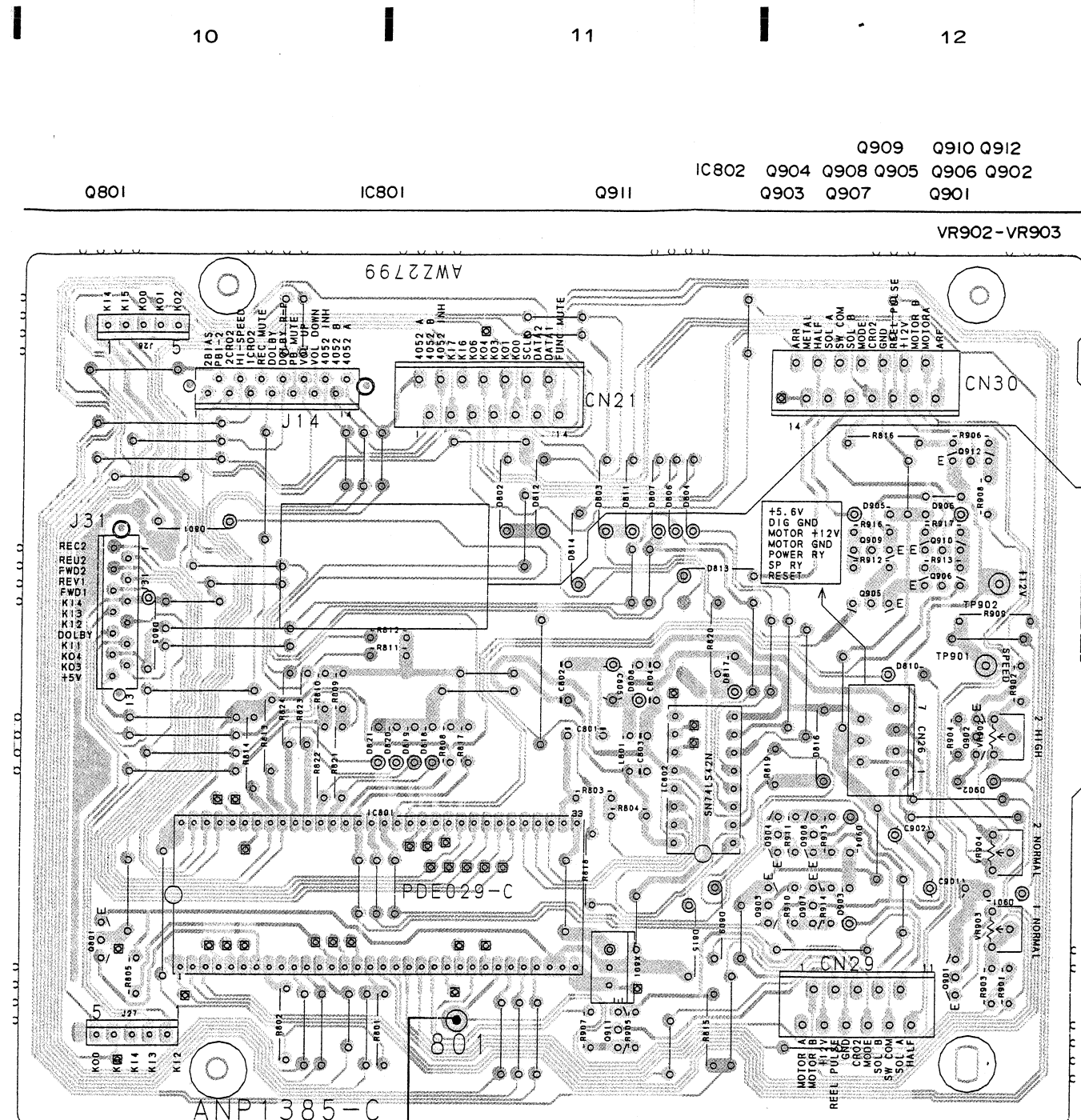
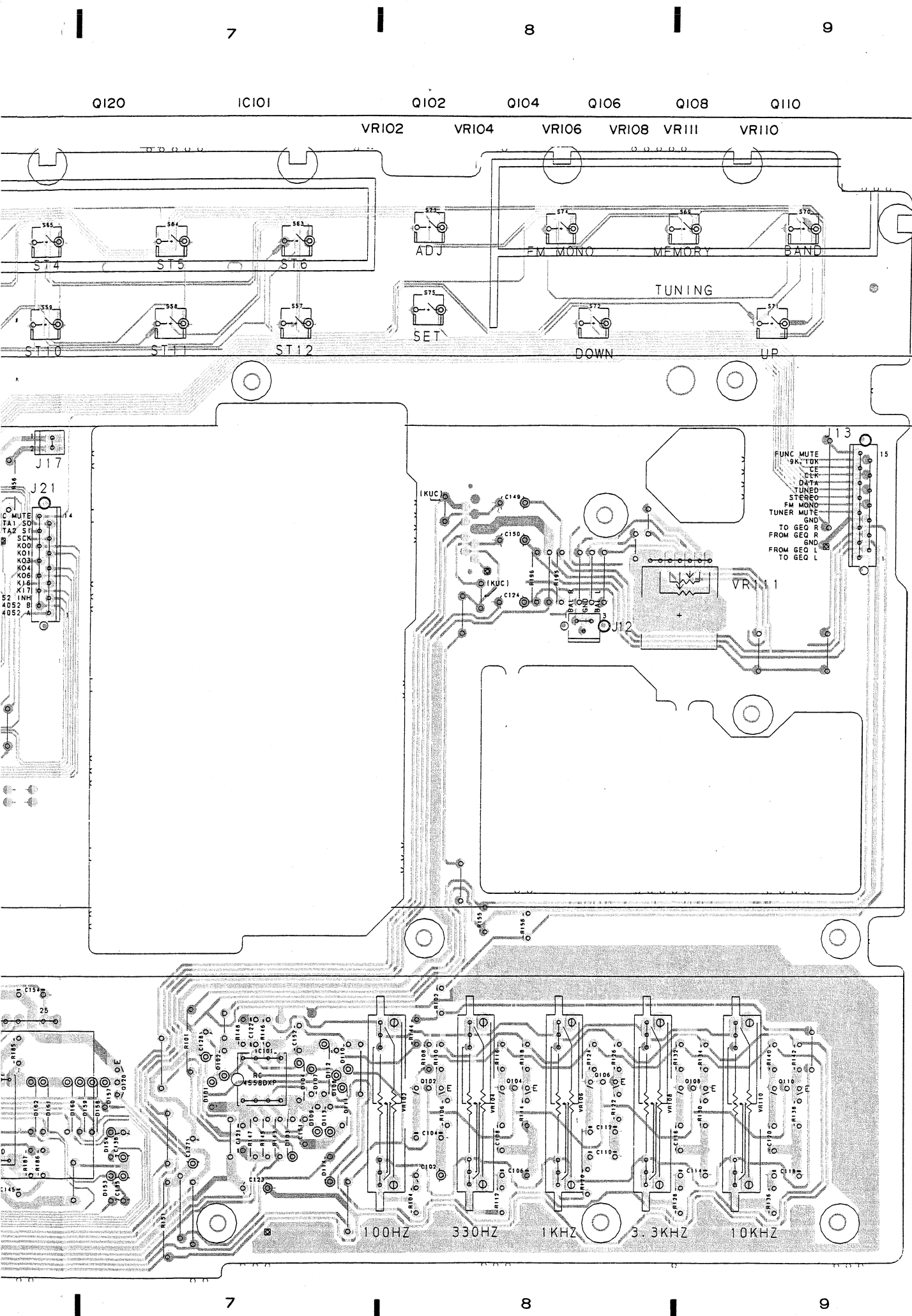
D



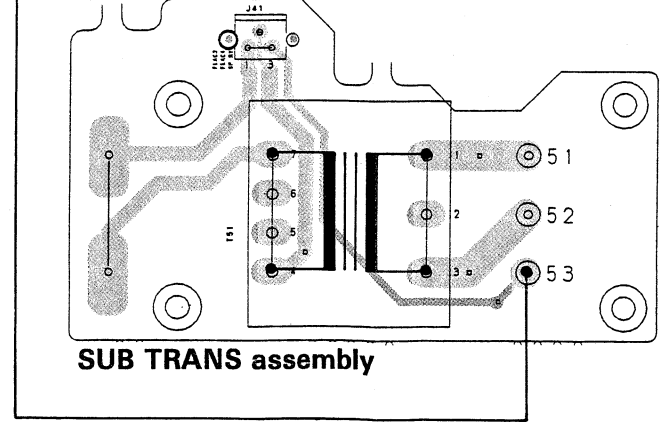
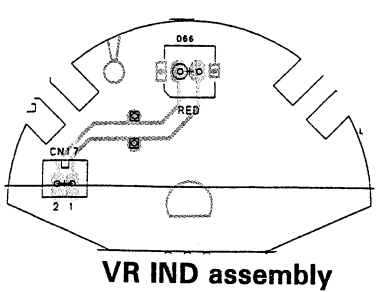
MULTI ROOM assembly



FRONT assembly (AWZ3469)



DECK CONTROL assembly (AWZ2799)

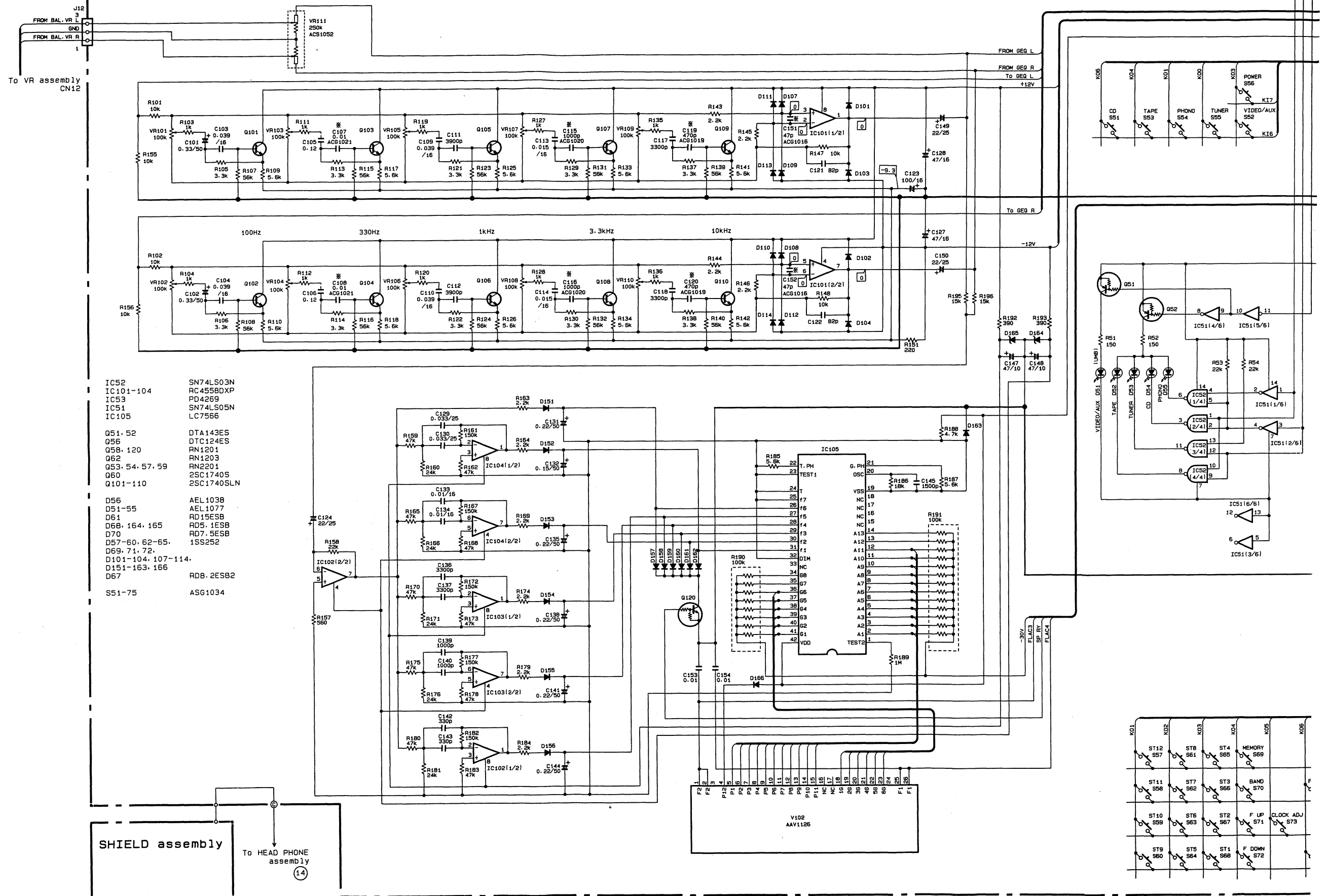


A
B
C
D

3.3 SCHEMATIC DIAGRAM FOR FRONT (AWZ3469), MULTI ROOM, VR IND and SHIELD assembly

To DECK CONTROL assembly
CN2
(To page 22)

FRONT assembly (AWZ3469)



To DECK CONTROL assembly
CN2
(To page 22)

VR IND assembly

MULTI ROOM assembly

SUB TRANS
assembly

TUNED STEREO MAIN SUB LOCAL WAKE UP 1 2 TIMER REC
MONO DECK II ON SLEEP
TV FM AM MHz KHz 88.8 REC TIME

To SIDE assembly
CN23

To SIDE assembly
CN13

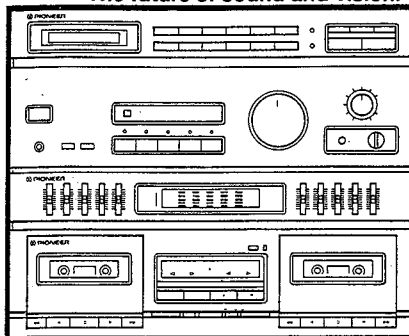
To POWER assembly
CN10

To DECK CONTROL
assembly (801) (To page 21)

To POWER TRANSFORMER T1 (10)
To POWER TRANSFORMER T1 (12)

Service Manual

PIONEER
The future of sound and vision.



ORDER NO.
ARP2028

STEREO DOUBLE CASSETTE DECK RECEIVER

RX-730

RX-730S

- This manual is applicable to the RX-730/KUC and RX-730S/KU types.
- As to the RX-730S/KU type, refer to page 60.

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YA APR. 1990 Printed in Japan.

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

1. SAFETY INFORMATION

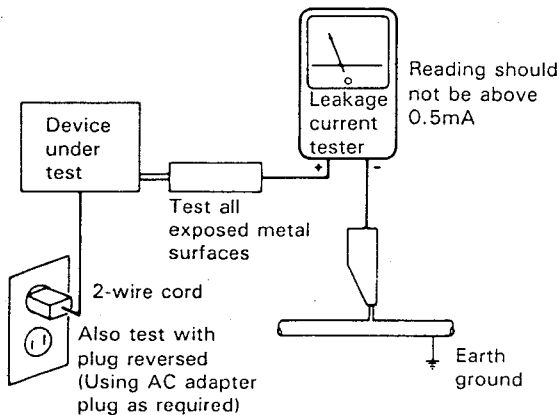
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS, PACKING AND PARTS LIST

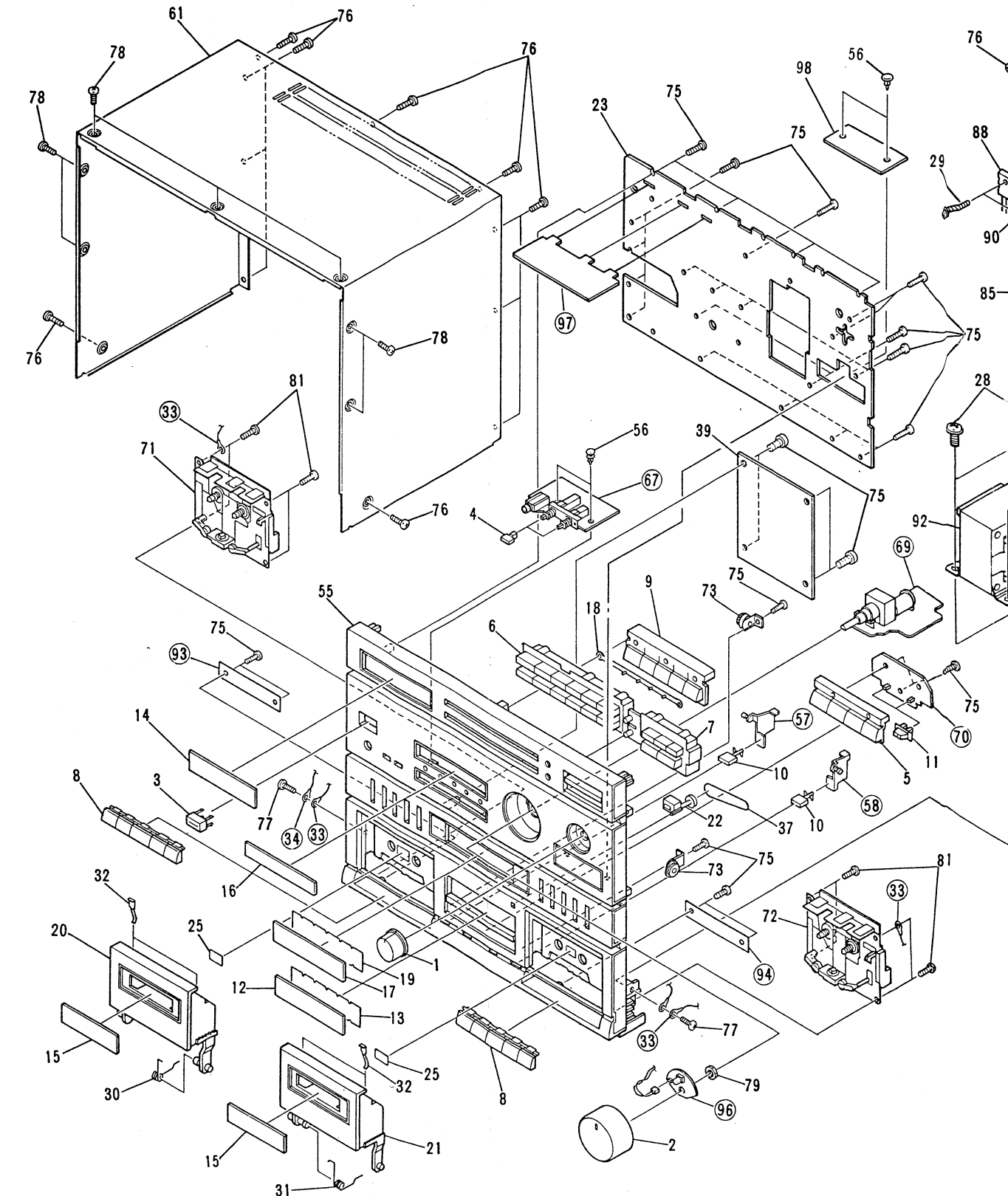
NOTES:

- Parts without part number cannot be supplied.
- The $\triangle$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
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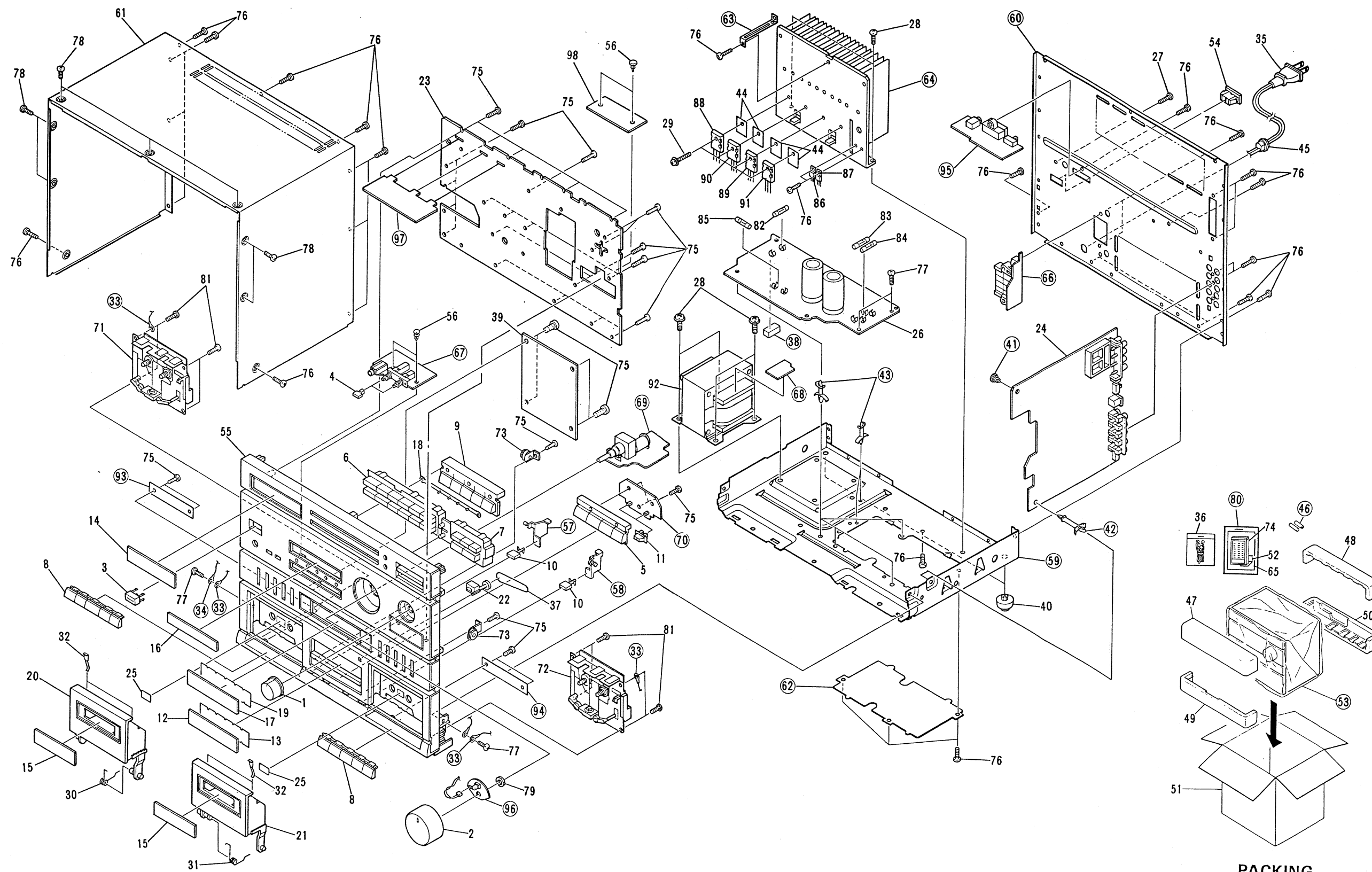
2.1 EXTERIOR AND PACKING

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	ROTARY KNOB M (BLANCE)	AAB1098		36	ANTENNA KIT	AEA1007
	2	ROTARY KNOB ASS'Y(PLS)(VOLUME)	AAB1142		37	COUNTER BELT	AEB1066
	3	POWER KNOB (POWER STAND BY/ON)	AAD1535		38	SPACER	
	4	KNOB (SPEAKER A/B)	AAD1544		39	DECK CONTROL ASSEMBLY	AWZ2799
	5	COPY BUTTON (COPY MODE,DECK 2)	AAD1784		40	FOOT ASSEMBLY	AEC-784
	6	STATION BUTTON(STATION CALL)	AAD1802		41	PIN GROMMET	
	7	BAND BUTTON (FM MONO,MEMORY,BAND- ,+)	AAD1743		42	PC SUPPORT	
	8	DECK BUTTON (DECK 1.2 OPERATION)	AAD1744		43	PCB SPACER	
	9	FUNCTION BUTTON (FUNCTION)	AAD1789		44	MICA SHEET	AEE1014
	10	EJECT BUTTON (EJECT)	AAD1797		45	CORD STOPPER	AEP-113
	11	SLIDE KNOB (DOLBY NR,REV MODE)	AAE1103		46	"AAA" DRY CELL	
	12	DECK CENTER PANEL A	AAK1906		47	FRONT PAD A	AHA1242
	13	DECK CENTER PANEL B	AAK1936		48	REAR PAD A	AHA1243
	14	TUNER DISPLAY PANEL	AAK1908		49	FRONT PAD B	AHA1244
	15	DOOR PANEL	AAK1909		50	REAR PAD B	AHA1245
	16	ACRYLIC PANEL	AAK1940		51	PACKING CASE	AHD1840
	17	SPEANA PANEL A	AAK1918		52	BATTERY COVER	AZN1846
	18	INDICATOR LENS (PLS)	AAK1921		53	SHEET	
	19	SPEANA PANEL B	AAK1938		54	AC SOCKET 1-P	AKP1015
	20	DOOR L	AAN1197		55	FRONT PANEL	AMB1653
	21	DOOR R	AAN1198		56	RIVET(PLASTIC)	AMR1066
	22	COUNTER	AAW1010		57	EJECT LEVER (L)	
	23	FRONT ASSEMBLY	AWZ2793		58	EJECT LEVER (R)	
	24	SIDE ASSEMBLY	AWZ2797		59	CHASSIS	
	25	LABEL	AAX1301		60	REAR PANEL	
	26	POWER ASSEMBLY	AWZ2789		61	BONNET CASE	ANE1191
	27	SCREW	ABA-176		62	BOTTOM PLATE	
	28	SCREW	ABA1021		63	PCB HEAT SINK HOLDER	
	29	SCREW	ABA1037		64	HEAT SINK	
	30	SPRING	ABH1050		65	OPERATING INSTRUCTIONS	ARB1246
	31	SPRING	ABH1051		66	SPEAKER ASSEMBLY	
	32	KEEP PLATE	ABK1011		67	HEAD PHONE ASSEMBLY	
	33	EARTH LEAD			68	CONNECT ASSEMBLY	
	34	EARTH LEAD			69	VR ASSEMBLY	
	35	AC POWER CORD	ADG1058		70	DECK IND ASSEMBLY	
					71	MECHA UNIT 1	AWY1074
					72	MECHA UNIT 2	AWY1075
					73	DAMPER ASS'Y	AXA1008
					74	REMOTE CONTROL UNIT	AXD1141
					75	SCREW	BBZ26P080FMC
					76	SCREW	BBZ30P080FZK
					77	SCREW	BBZ30P080FMC
					78	SCREW	BPZ30P100FZK
					79	NUT	NK90FUC
					80	BAG	
					81	SCREW	VPZ30P080FMC
					82	FU1 FUSE(6.3A)	AEK-309

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.	Mark	No.
$\triangle$	83	FU3 FUSE(2A)	AEK-122	$\triangle$	88	Q1 TRANSISTOR	2SC3281		93
$\triangle$	84	FU4 FUSE(2A)	AEK-122	$\triangle$	89	Q2 TRANSISTOR	2SC3281		94
$\triangle$	85	FU5 FUSE(500mA)	AEK-136	$\triangle$	90	Q3 TRANSISTOR	2SA1302		95
$\triangle$	86	IC701 REGURATOR IC	MC7812CT	$\triangle$	91	Q4 TRANSISTOR	2SA1302		96
A $\triangle$	87	IC702 REGURATOR IC	MC7812CT	$\triangle$	92	T1 POWER TRANSFORMER	ATS1272		97
									98



Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
△	83	FU3 FUSE(2A)	AEK-122	△	88	Q1 TRANSISTOR	2SC3281	93	DECK 1 SW ASSEMBLY		
△	84	FU4 FUSE(2A)	AEK-122	△	89	Q2 TRANSISTOR	2SC3281	94	DECK 2 SW ASSEMBLY		
△	85	FU5 FUSE(500mA)	AEK-136	△	90	Q3 TRANSISTOR	2SA1302	95	MULTI ROOM ASSEMBLY		
△	86	IC701 REGURATOR IC	MC7812CT	△	91	Q4 TRANSISTOR	2SA1302	96	VR IND ASSEMBLY		
A △	87	IC702 REGURATOR IC	MC7812CT	△	92	T1 POWER TRANSFORMER	ATS1272	97	SHIELD ASSEMBLY		
								98	LATCH ASSEMBLY	AWX1044	



PACKING

2.2 MECHA UNIT 1 (AWY1074)

Mark	No.	Parts No.	Description
	1	AZE1018	Hall IC
	2	AZX1019	Motor
	3	AZS1054	Leaf SW (MODE)
	4	AZS1034	Leaf SW
	5	AZN1286	Drive arm assembly
	6	AZN1287	FW assembly A
	7	AZN1288	Cam gear
	8	AZN1289	Reel
	9	AZN1971	FR arm
	10	AZN1972	Pinch roller L assembly
	11	AZN1973	Pinch roller R assembly
	12	AZN1293	Gear
	13	AZN1294	H Gear
	14	AZN1793	CUE arm
	15	AZB1079	Screw
	16	AZB1080	Screw
	17	AZN1984	Collar
	18	AZN1297	Motor pully
	19	AZN1298	Belt
	20	AZN1299	Spring
	21	AZN1300	FR lever spring
	22	AZN1301	FWF spring
	23	AZN1302	FWR spring
	24	AZN1303	Spring
	25		.....
	26	AZN1305	Cable holder
	27	AZN1306	Spring
	28	AZN1307	Spring
	29	AZN1308	Spring
	30	AZN1309	Spring
	31	AZN1310	Spring
	32	AZN1311	Spring
	33	AZN1312	Spring
	34	AZN1313	Spring
	35	AZN1314	Spring
	36	AZN1315	Spring
	37	AZB1081	Screw
	38	AZN1316	Nylon band
	39	AZN1995	P.C.board
	40		Jumper wire
	41		Wire assembly
	42		Lead wire
	43		Wire
	44		.....
	45		Mecha P.C.board calking assembly
	46	AZN1319	R reel assembly
	47	AZN1320	F reel assembly
	48	AZN1321	Reverse arm calking assembly
	49		FR lever assembly
	50	AZN1975	PLAY lever calking assembly
	51	AZN1976	Gear arm R
	52	AZN1977	Gear arm L
	53	AZN1326	Head lever calking assembly

Mark	No.	Parts No.	Description
	54	AZN1327	FW assembly
	55		Head P.C.board
	56		Plate (FLY WHEEL)
	57	AZN1328	Azimuth plate
	58		SW arm
	59	AZN1988	Eject arm L
	60	AZN1989	Eject arm R
	61	AZN1330	Head arm
	62	AZN1331	Azimuth spring
	63	AZN1332	Cassette stopper
	64	AZN1349	Trigger arm
	65	AZN1334	Head frame
	66	AZN1335	Cassette guide L
	67	AZN1336	Cassette guide R
	68	AZN1337	Cassette guide
	69	AZN1338	Cam gear
	70	AZN1994	Head holder
	71	AZN1340	Head gear
	72	AZN1980	Eject arm 2
	73	AZN1342	Select lever
	74	AZN1343	Brake
	75	AZN1468	Tube
	76	AZN1985	Ratch lever R
	77	AZN1346	Metal
	78	AZN1347	Metal
	79	AZN1348	Cushion
	80	AZN1978	Trigger arm
	81		.....
	82	AZS1085	Solenoid
	83		.....
	84	AZP1022	P Head
	85	AZB1099	Screw
	86	AZN1352	Spring
	87	AZN1304	Spacer
	88	AZN1470	Tube
	89	AZB1100	Screw
	90	AZS1087	Solenoid
	91	AZB1101	Screw
	92	AZB1102	Spring washer
	93	AZN1471	Head spring
	94	AZB1298	Screw
	95	AZN1833	Capstan holder
	96	AZN1834	Capstan holder
	97	AZN1334	Eject lever L
	98		.....
	99		Holder
	100	AZB1084	Nut
	101	AZB1085	E ring
	102	AZB1086	D screw
	103	AZB1121	P washer
	104	AZB1087	N washer
	105	AZB1089	U screw
	106	AZB1090	P washer
	107	AZB1091	Oil cut

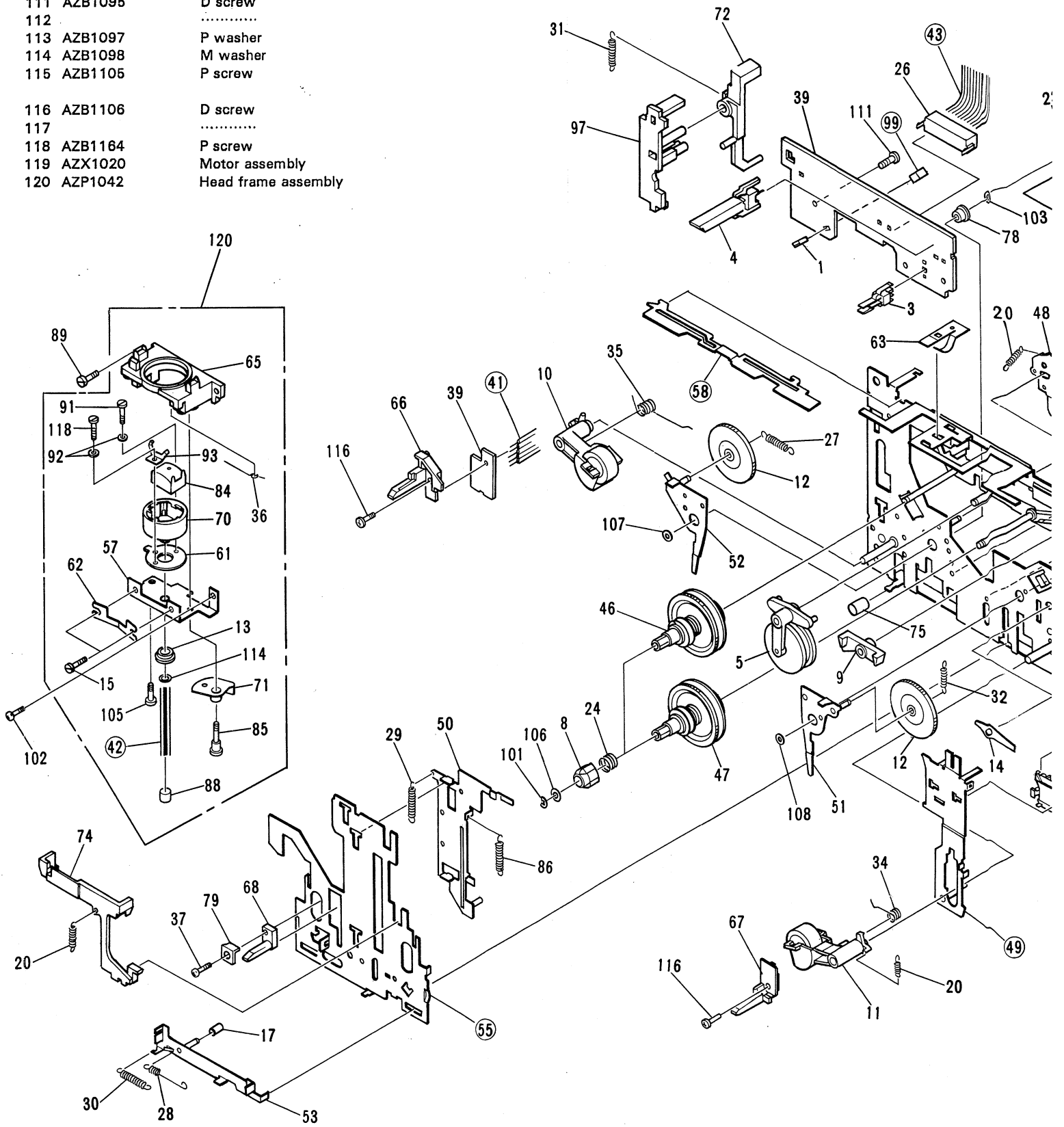
Mark	No.	Parts No.	Description
	108	AZB1092	Oil cut
	109		.....
	110	AZB1094	P washer
	111	AZB1095	D screw
	112		.....
	113	AZB1097	P washer
	114	AZB1098	M washer
	115	AZB1105	P screw
	116	AZB1106	D screw
	117		.....
	118	AZB1164	P screw
	119	AZX1020	Motor assembly
	120	AZP1042	Head frame assembly

A

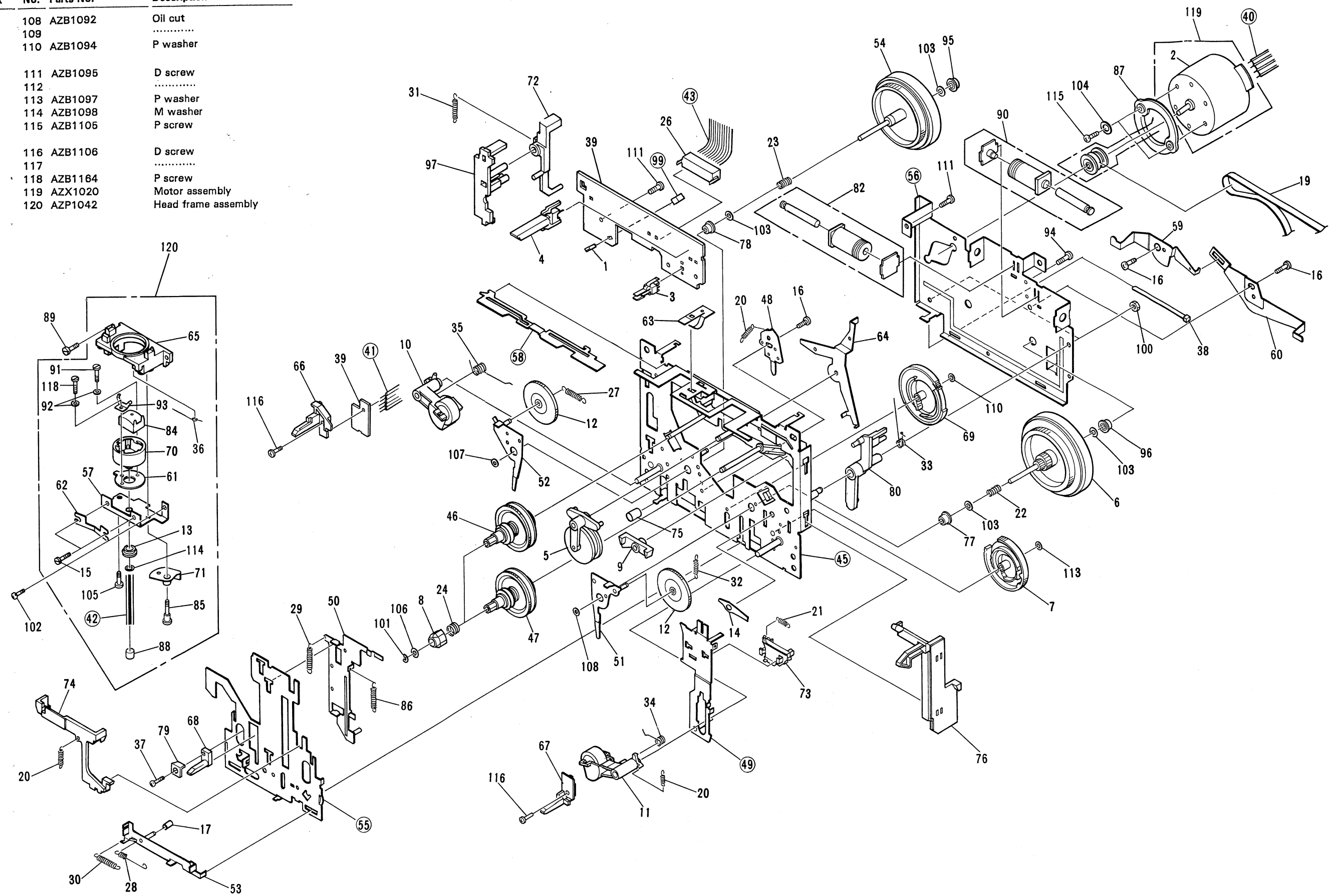
B

C

D



No.	Parts No.	Description
108	AZB1092	Oil cut
109	.....	.....
110	AZB1094	P washer
111	AZB1095	D screw
112	.....	.....
113	AZB1097	P washer
114	AZB1098	M washer
115	AZB1105	P screw
116	AZB1106	D screw
117	.....	.....
118	AZB1164	P screw
119	AZX1020	Motor assembly
120	AZP1042	Head frame assembly

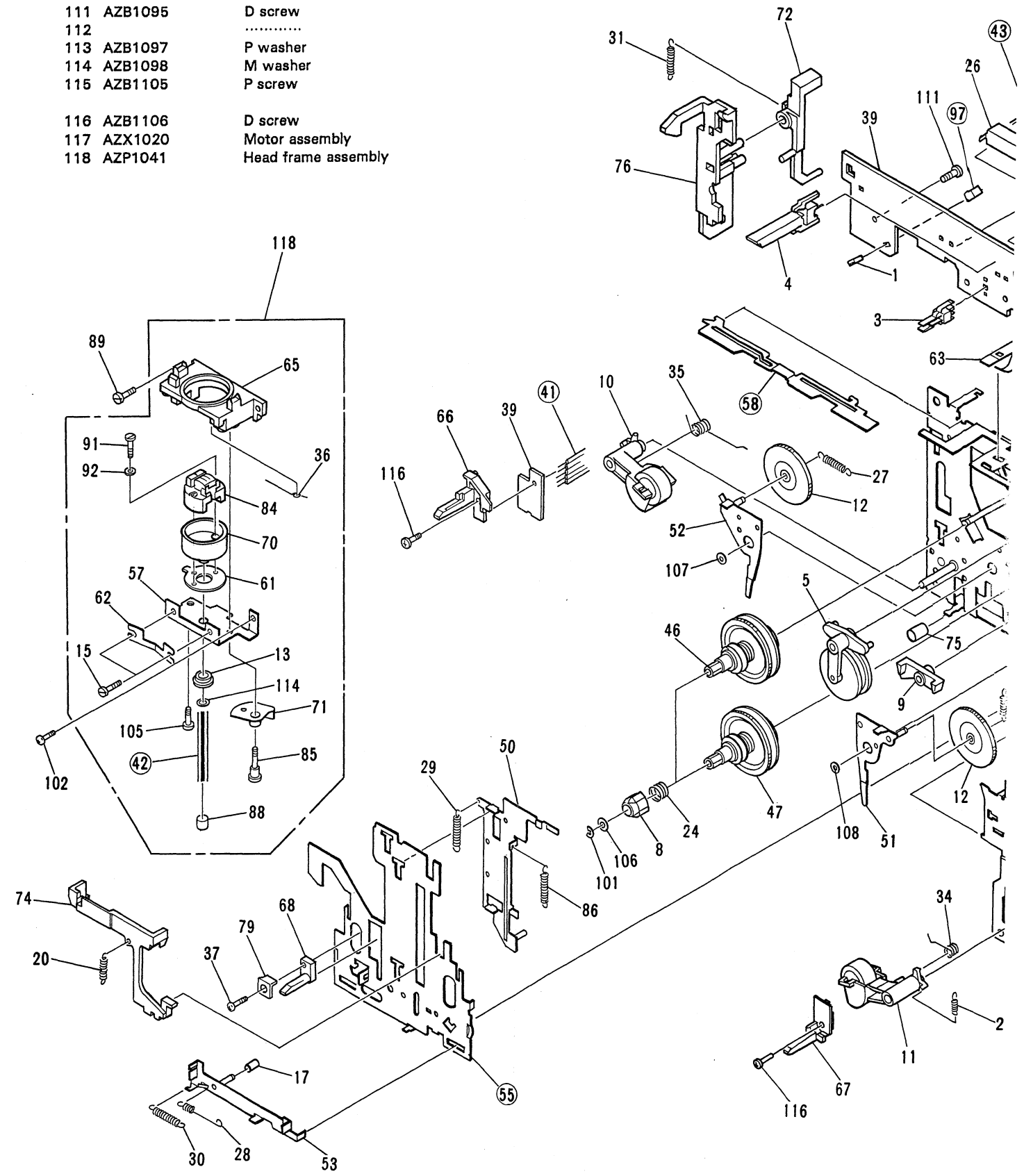


2.3 MECHA UNIT 2 (AWY1075)

Mark	No.	Parts No.	Description
	1	AZE1018	Hall IC
	2	AZX1019	Motor
	3	AZS1054	Leaf SW (MODE)
	4	AZS1034	Leaf SW (ARF, HALF, METAL, CrO2, ARR)
	5	AZN1286	Drive arm assembly
	6	AZN1287	FW assembly A
	7	AZN1288	Cam gear
	8	AZN1289	Reel
	9	AZN1971	FR arm
	10	AZN1972	Pinch roller L assembly
	11	AZN1973	Pinch roller R assembly
	12	AZN1293	Gear
	13	AZN1294	H Gear
	14	AZN1793	CUE arm
	15	AZB1079	Screw
	16	AZB1080	Screw
	17	AZN1984	Collar
	18	AZN1297	Motor pully
	19	AZN1298	Belt
	20	AZN1299	Spring
	21	AZN1300	FR lever spring
	22	AZN1301	FWF spring
	23	AZN1302	FWR spring
	24	AZN1303	Spring
	25		.....
	26	AZN1305	Cable holder
	27	AZN1306	Spring
	28	AZN1307	Spring
	29	AZN1308	Spring
	30	AZN1309	Spring
	31	AZN1310	Spring
	32	AZN1311	Spring
	33	AZN1312	Spring
	34	AZN1313	Spring
	35	AZN1314	Spring
	36	AZN1315	Spring
	37	AZB1081	Screw
	38	AZN1316	Nylon band
	39	AZN1997	P.C.board
	40		Jumper wire
	41		Wire assembly
	42		Lead wire
	43		wire
	44		.....
	45		Mecha P.C.board calking assembly
	46	AZN1319	R reel assembly
	47	AZN1320	F reel assembly
	48	AZN1321	Reverse arm calking assembly
	49		FR lever calking assembly
	50	AZN1975	PLAY lever calking assembly
	51	AZN1976	Gear arm R calking assembly
	52	AZN1977	Gear arm L calking assembly

Mark	No.	Parts No.	Description
	53	AZN1326	Head lever calking assembly
	54	AZN1327	FW assembly
	55		Head P.C.board
	56		Plate (FLY WHEEL)
	57	AZN1328	Azimuth plate
	58		SW arm
	59		.....
	60		.....
	61	AZN1330	Head arm
	62	AZN1331	Azimuth spring
	63	AZN1332	Cassette stopper
	64	AZN1978	Trigger arm
	65	AZN1334	Head frame
	66	AZN1335	Cassette guide L
	67	AZN1336	Cassette guide R
	68	AZN1337	Cassette guide
	69	AZN1338	Cam gear
	70	AZN1979	Head holder
	71	AZN1340	Head gear
	72	AZN1980	Eject arm 2
	73	AZN1342	Select lever
	74	AZN1343	Brake
	75	AZN1468	Tube
	76	AZN1981	Ratch lever L
	77	AZN1346	Metal
	78	AZN1347	Metal
	79	AZN1348	Cushion
	80	AZN1349	Trigger arm
	81		.....
	82	AZS1085	Solenoid
	83		.....
	84	AZP1014	R/P Head
	85	AZB1099	Screw
	86	AZN1352	Spring
	87	AZN1304	Spacer
	88	AZN1470	Tube
	89	AZB1100	Screw
	90	AZS1087	Solenoid
	91	AZB1101	Screw
	92	AZB1102	Spring washer
	93		.....
	94	AZB1298	Screw
	95	AZN1833	Capstan holder
	96	AZN1834	Capstan holder
	97		Holder
	98		.....
	99		.....
	100	AZB1084	Nut
	101	AZB1085	E ring
	102	AZB1086	D screw
	103	AZB1121	P washer
	104	AZB1087	N washer
	105	AZB1089	U screw
	106	AZB1090	P washer
	107	AZB1091	Oil cut

Mark	No.	Parts No.	Description
	108	AZB1092	Oil cut
	109		.....
	110	AZB1094	P washer
	111	AZB1095	D screw
	112		.....
	113	AZB1097	P washer
	114	AZB1098	M washer
	115	AZB1105	P screw
	116	AZB1106	D screw
	117	AZX1020	Motor assembly
	118	AZP1041	Head frame assembly



Mark	No.	Parts No.	Description
	108	AZB1092	Oil cut
	109		.....
	110	AZB1094	P washer
	111	AZB1095	D screw
	112		.....
	113	AZB1097	P washer
	114	AZB1098	M washer
	115	AZB1105	P screw
	116	AZB1106	D screw
	117	AZX1020	Motor assembly
	118	AZP1041	Head frame assembly

assembly

A

B

C

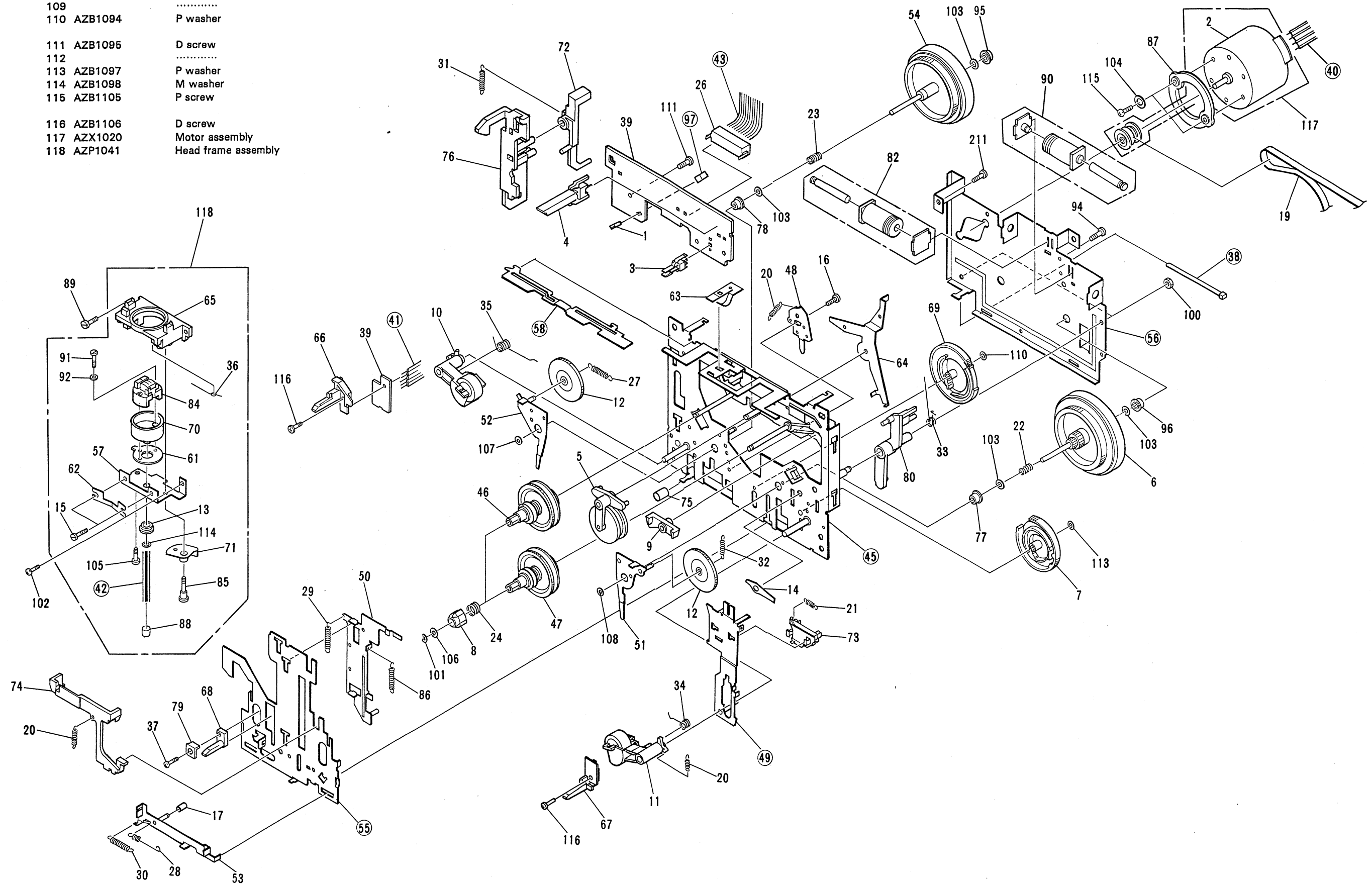
D

A

B

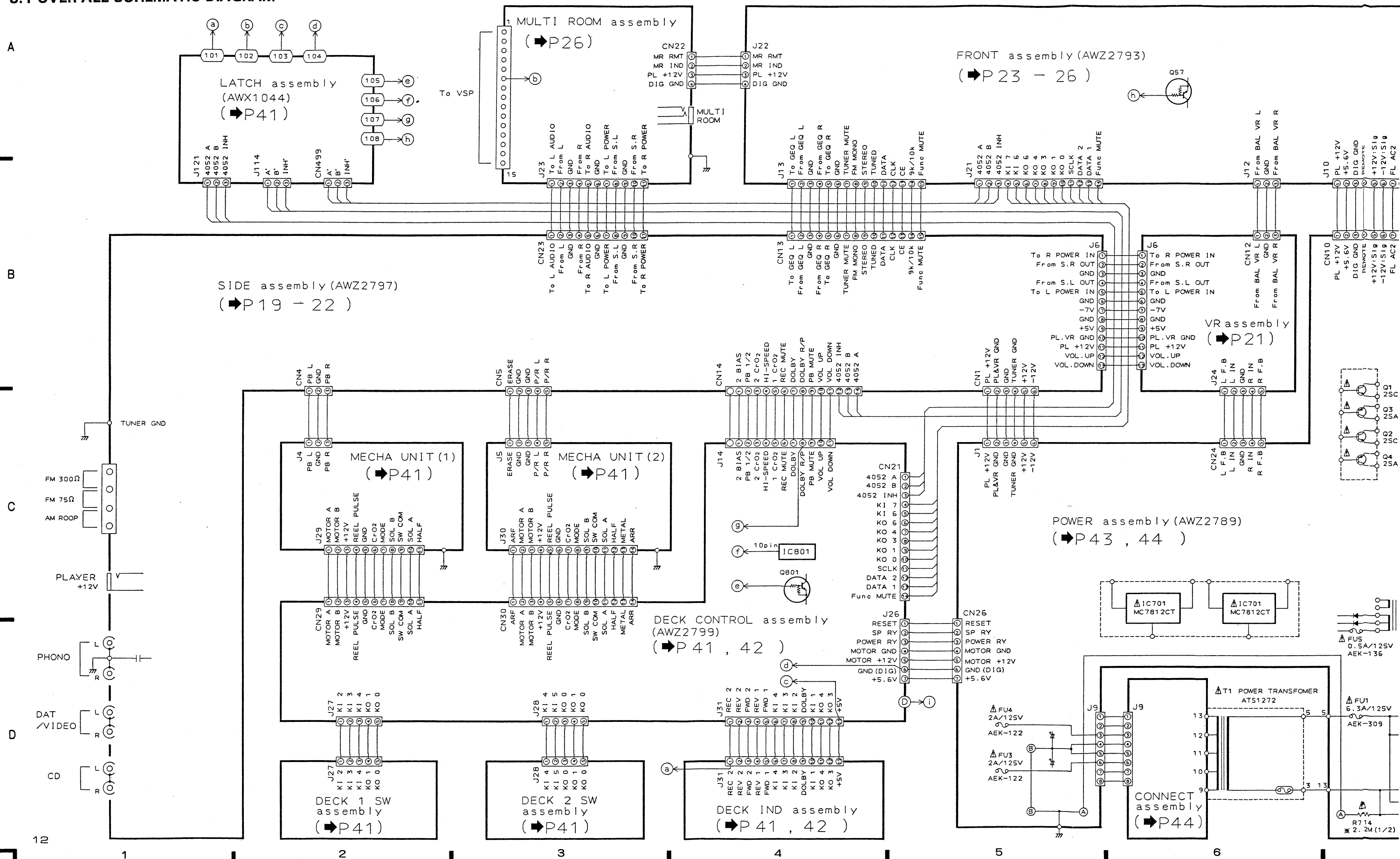
C

D



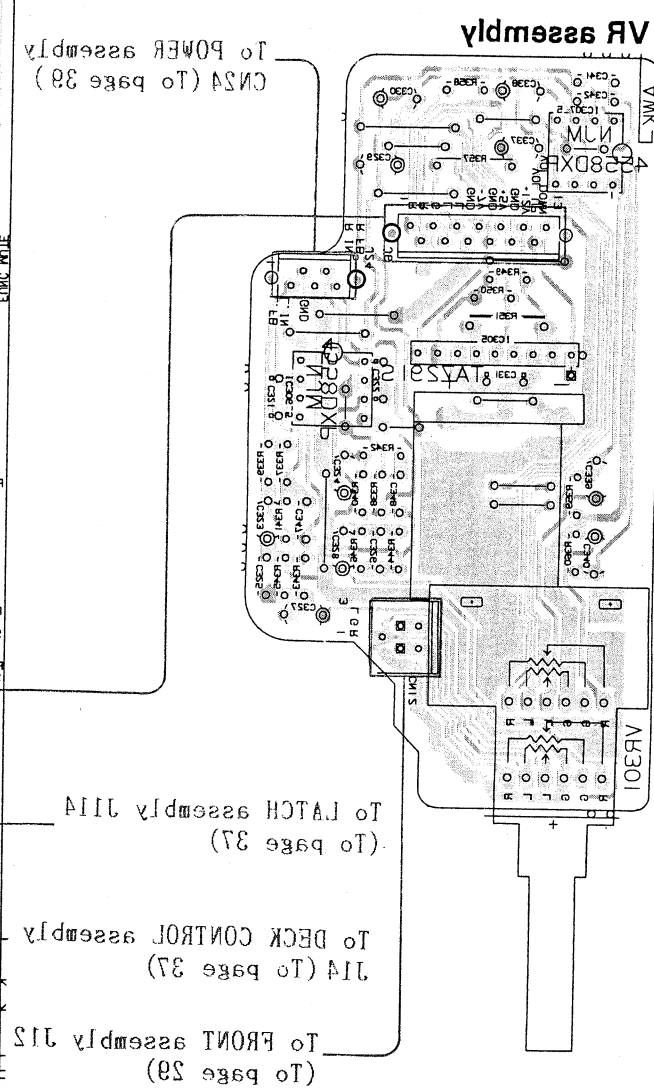
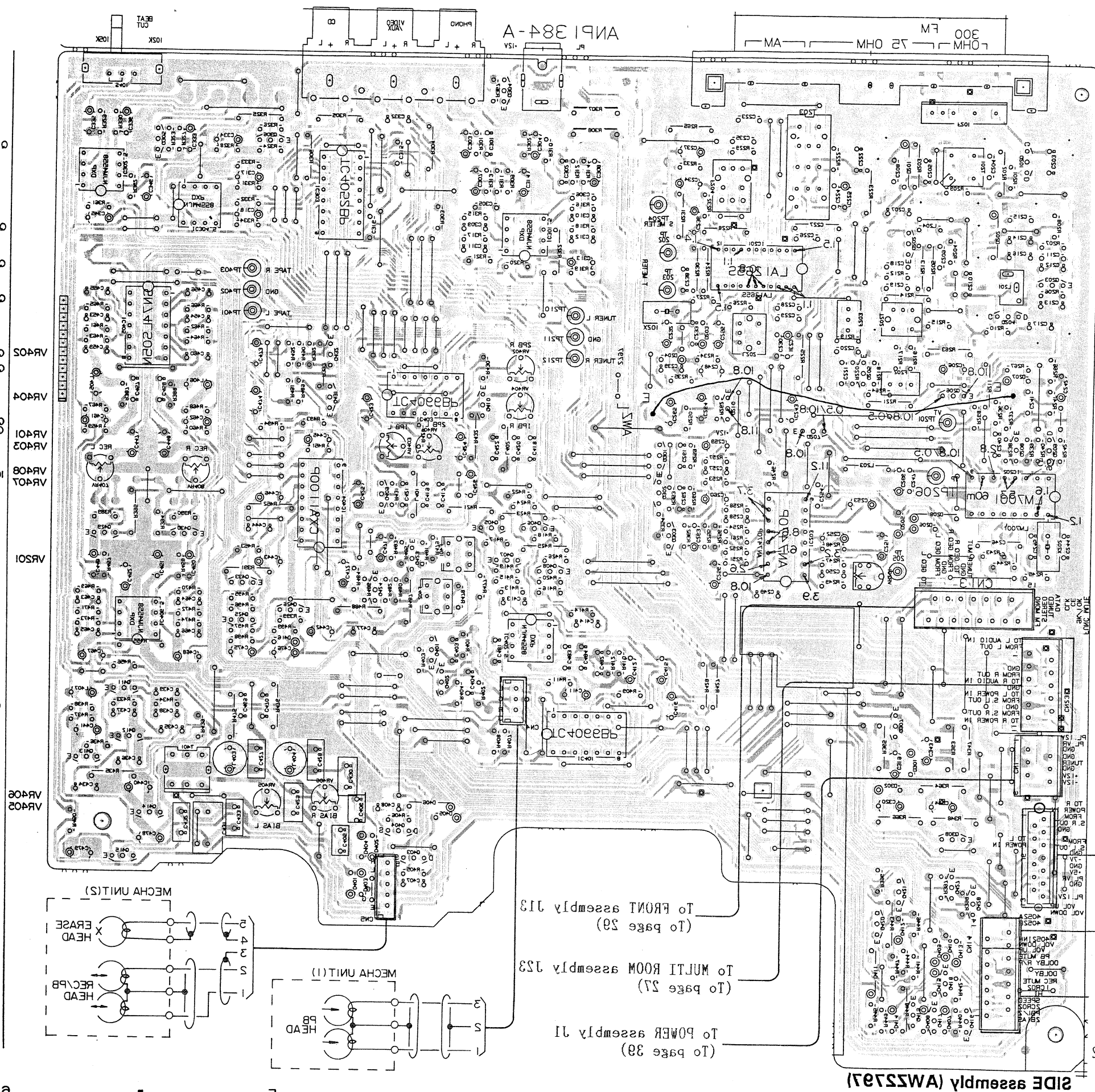
3. SCHEMATIC DIAGRAMS AND P.C.BOARD CONNECTION DIAGRAMS

3.1 OVER ALL SCHEMATIC DIAGRAM





NOTE:
This picture shows the foil side of the
printed circuit.



3.2 SIDE assembly (AWZ2797) and VR assembly

NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

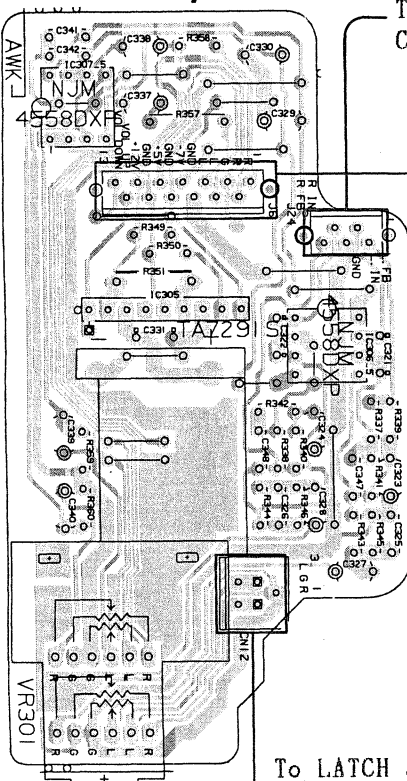
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with (⊖) (double circles) shows negative terminal.
4. The diode terminal marked with (⊕) (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

VR assembly



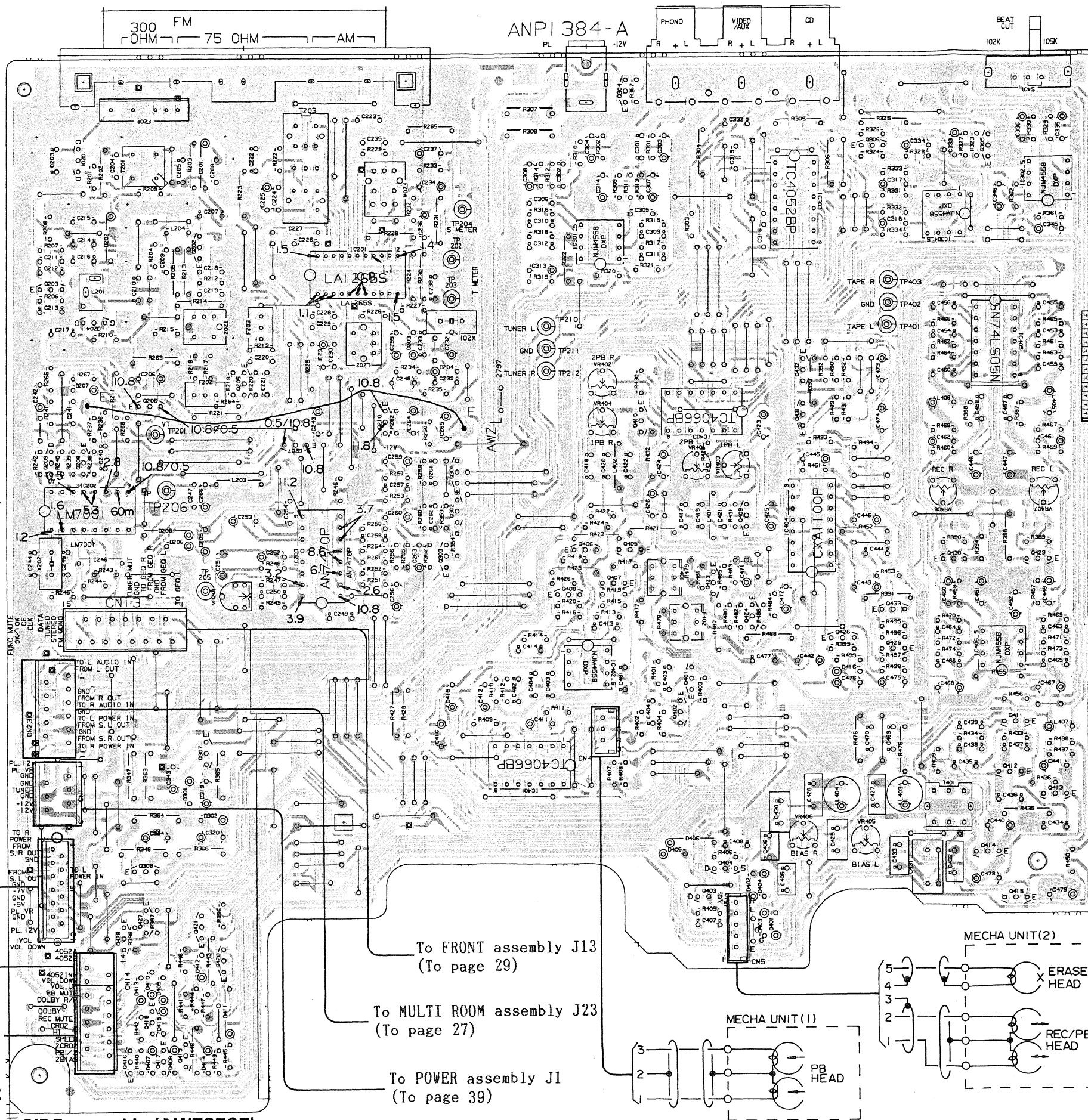
To POWER assembly
CN24 (To page 39)

To LATCH assembly J114
(To page 37)

To DECK CONTROL assembly
J14 (To page 37)

To FRONT assembly J12
(To page 29)

SIDE assembly (AWZ2797)



To FRONT assembly J13
(To page 29)

To MULTI ROOM assembly J23
(To page 27)

To POWER assembly J1
(To page 39)

Q304
A

Q201 Q306
Q305

IC302

IC303

Q202 IC301

IC201

Q203

Q204

IC405

Q205 Q432

Q206

VR402

VR404 Q210 Q410

VR401 Q207 IC403

VR403 Q301

VR408 Q302

VR407 IC202

Q409

IC404

Q406 Q430

Q408 Q407

Q423 Q433

Q424

IC402

Q401

Q402

Q411

Q307 IC401

Q412

Q413

Q414

Q415

Q416

Q417

Q418

Q419

Q420

Q421

Q422

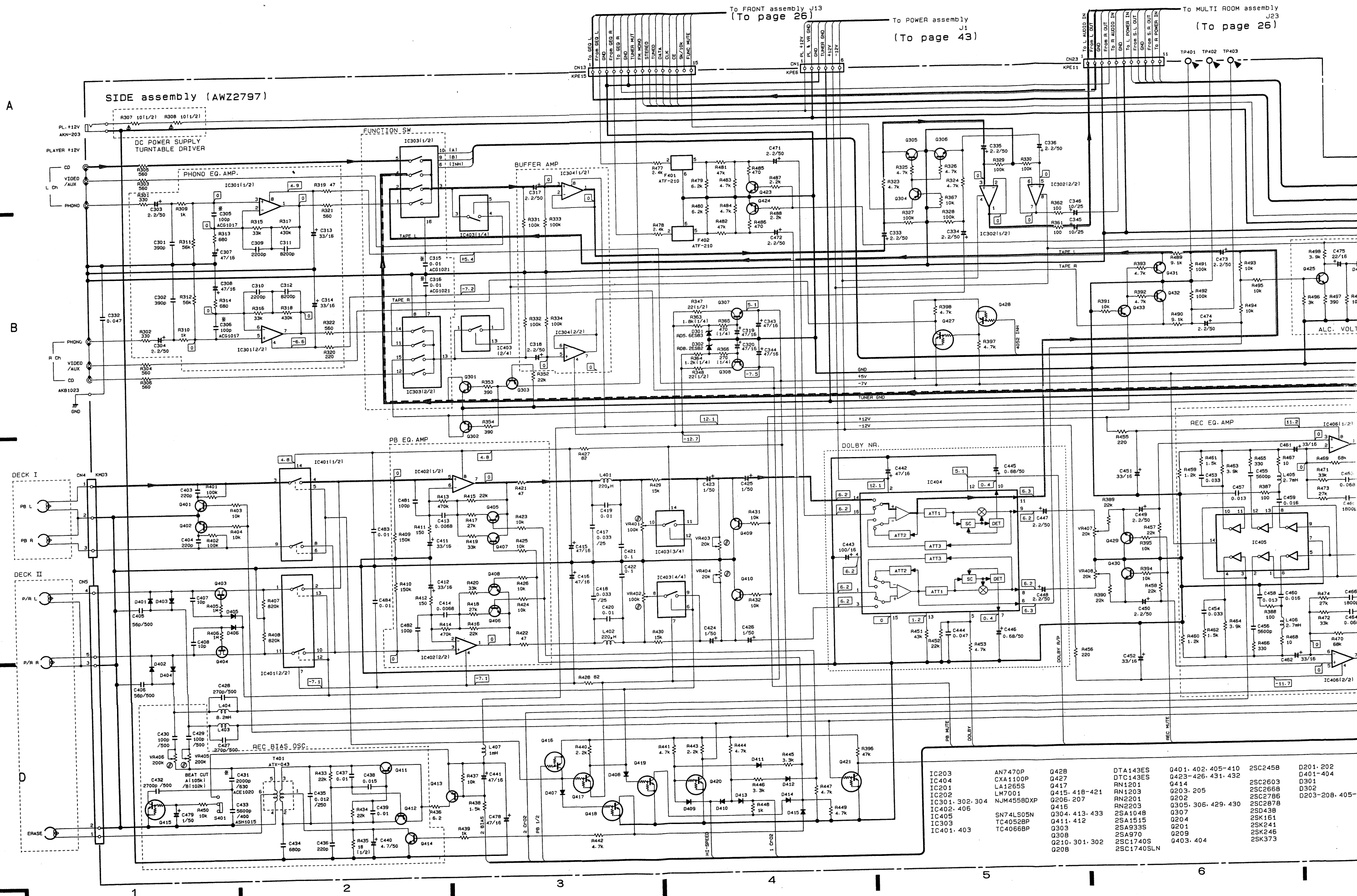
Q423

Q424

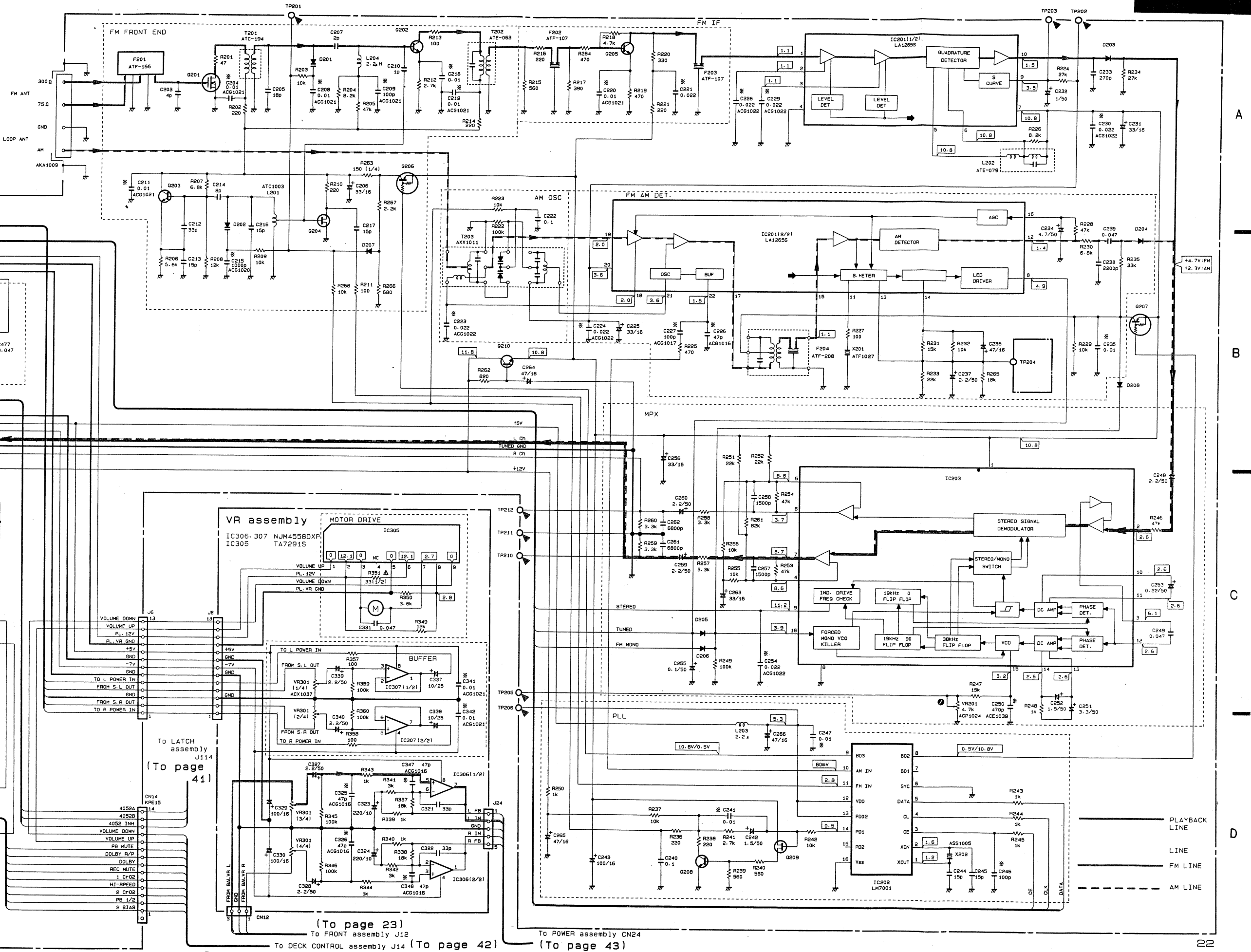
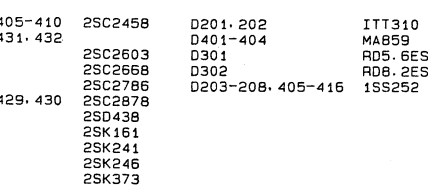
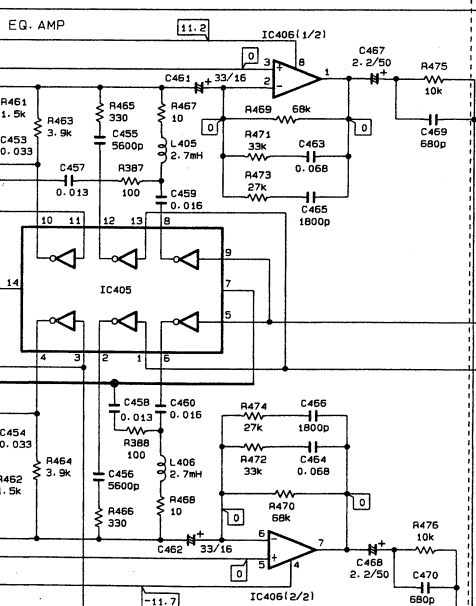
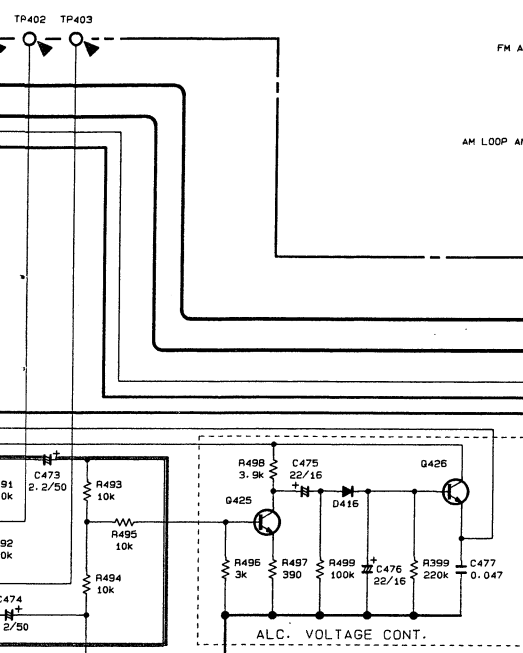
A

B

D



IC203	AN7470P	Q428	DTA143ES	Q401, 402, 405-410	2SC2458	D201, 202
IC404	CXA1100P	Q427	DTC143ES	Q423-426, 431, 432	2SC2603	D401-404
IC201	LA1265S	Q417	RN1201	Q414	2SC2658	D301
IC202	LM7001	Q415, 418-421	RN1203	Q203, 205	2SC2786	D302
IC301, 302, 304	NJM45580XP	Q206, 207	RN2201	Q202	2SC2878	D203-208, 405-
IC402, 406		Q416	2SA1048	Q305, 306, 429, 430	2SD438	
IC405	SN74LS05N	Q304, 413, 433	2SA1515	Q307	2SK161	
IC303	TC4052BP	Q411, 412	2SA933S	Q201	2SK241	
IC401, 403	TC4066BP	Q308	2SA970	Q209	2SK246	
		Q210, 301, 302	2SC1740S	Q403, 404	2SK373	
		Q208	2SC1740SLN			



A

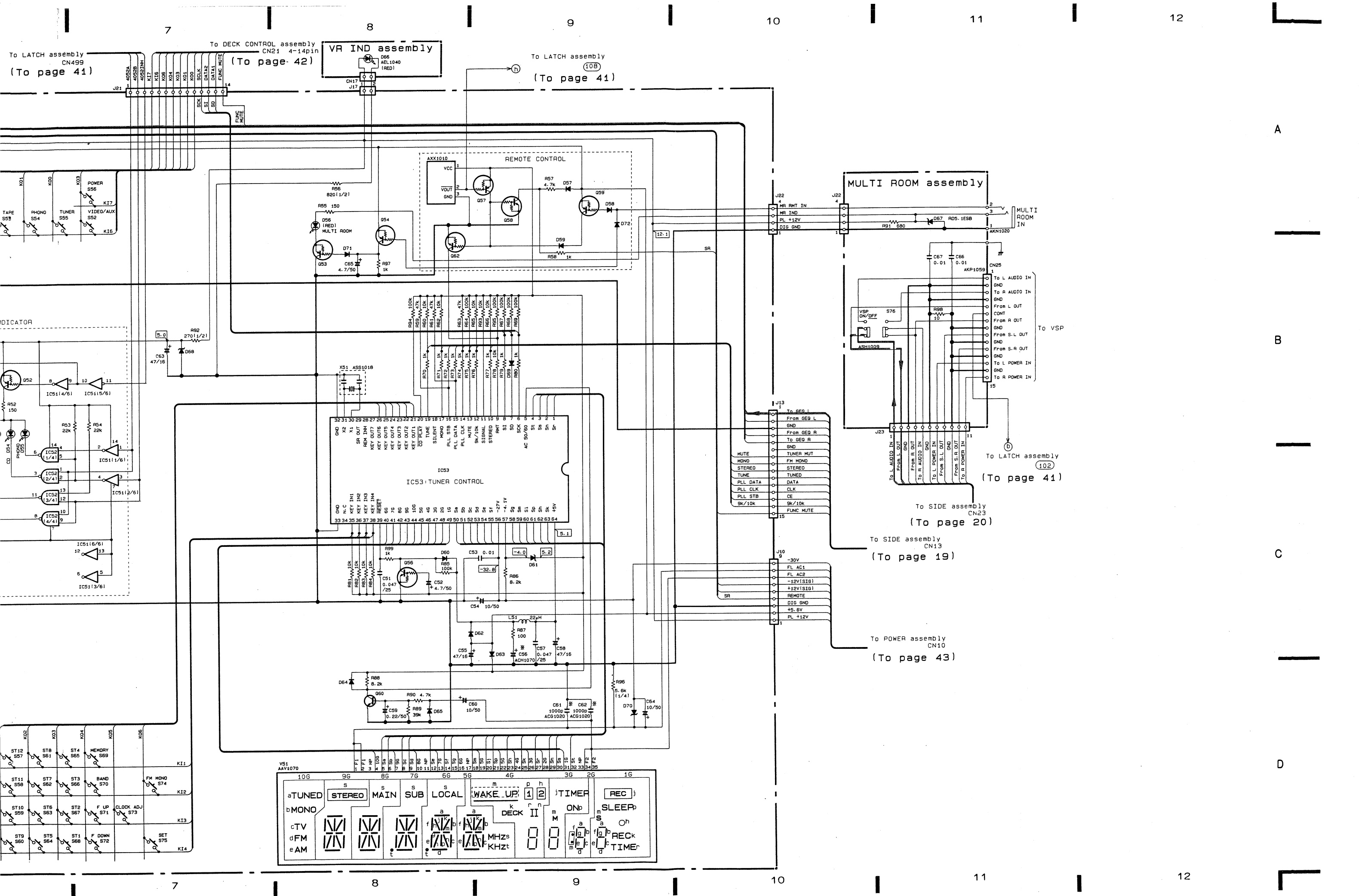
B

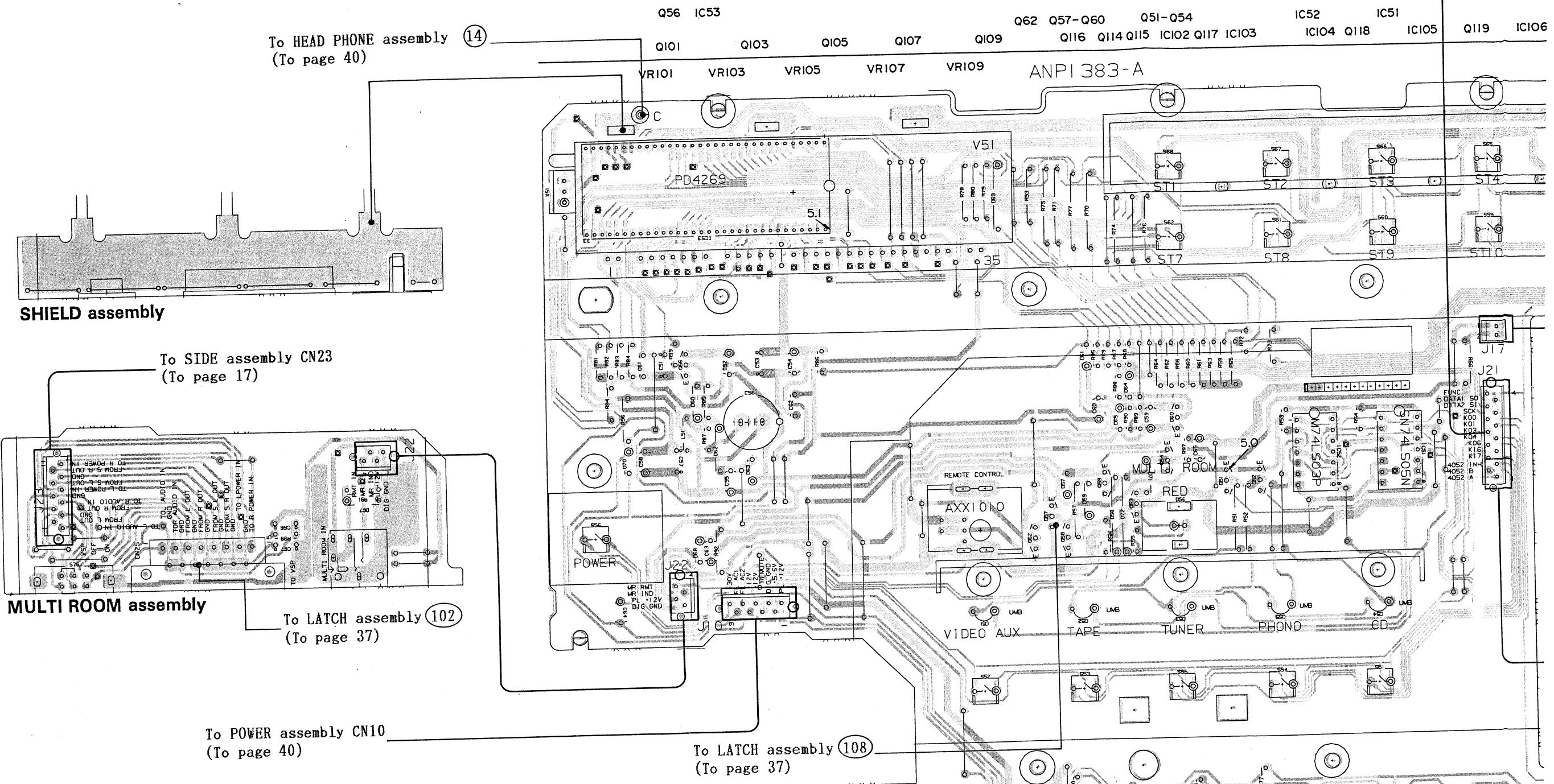
C

D

To LATCH assembly —
CN499
(To page 41)







SHIELD assembly

MULTI ROOM assembly

FRONT assembly (AW22793)

NOTE

1. This P.C.B. connection diagram is viewed from the parts mounted side.

2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
		Transistor
		Radiator type transistor
		Diode
		Resistor
		Capacitor (Polarity)
		Capacitor (Non-polarity)

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

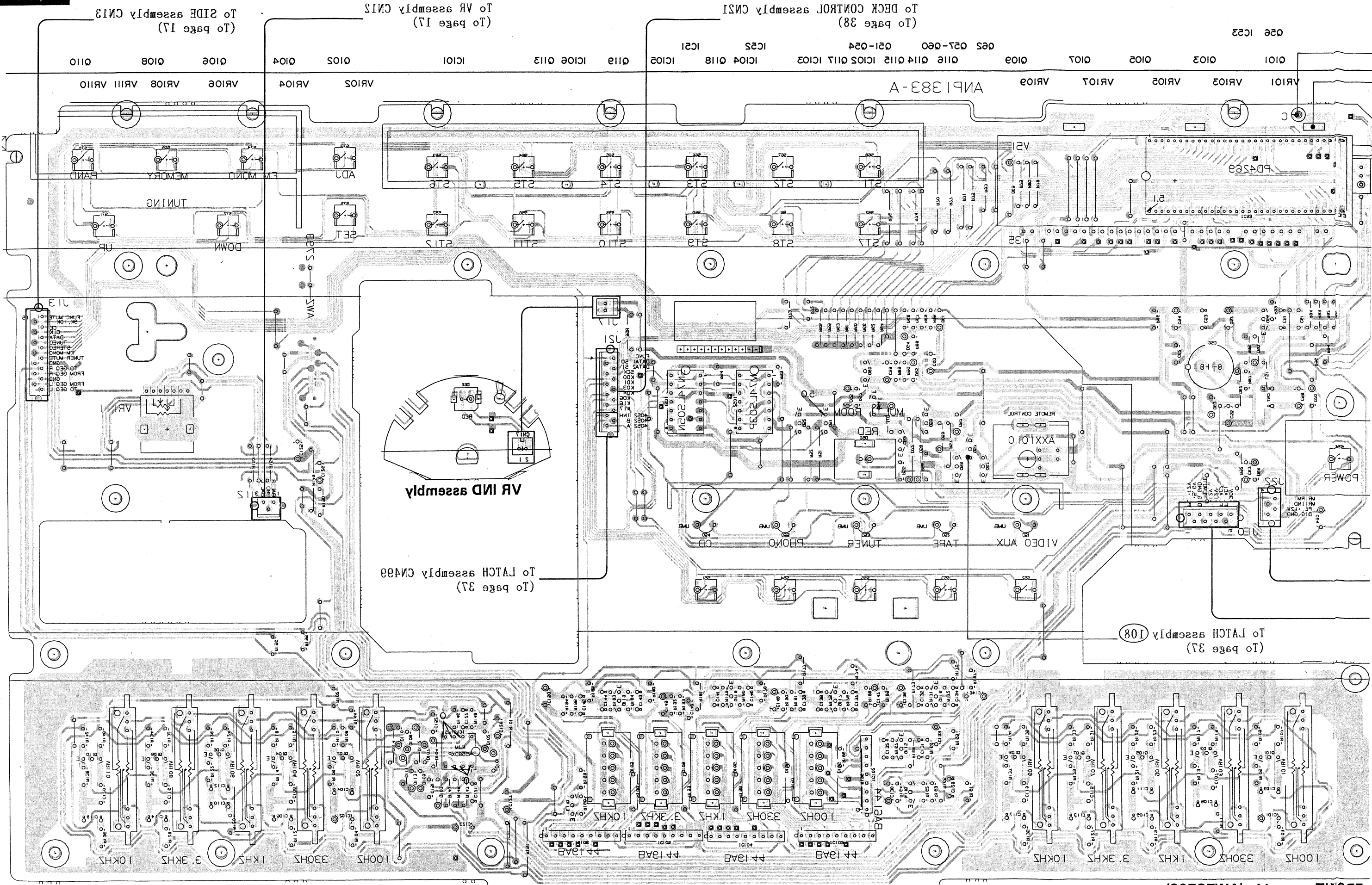
Others

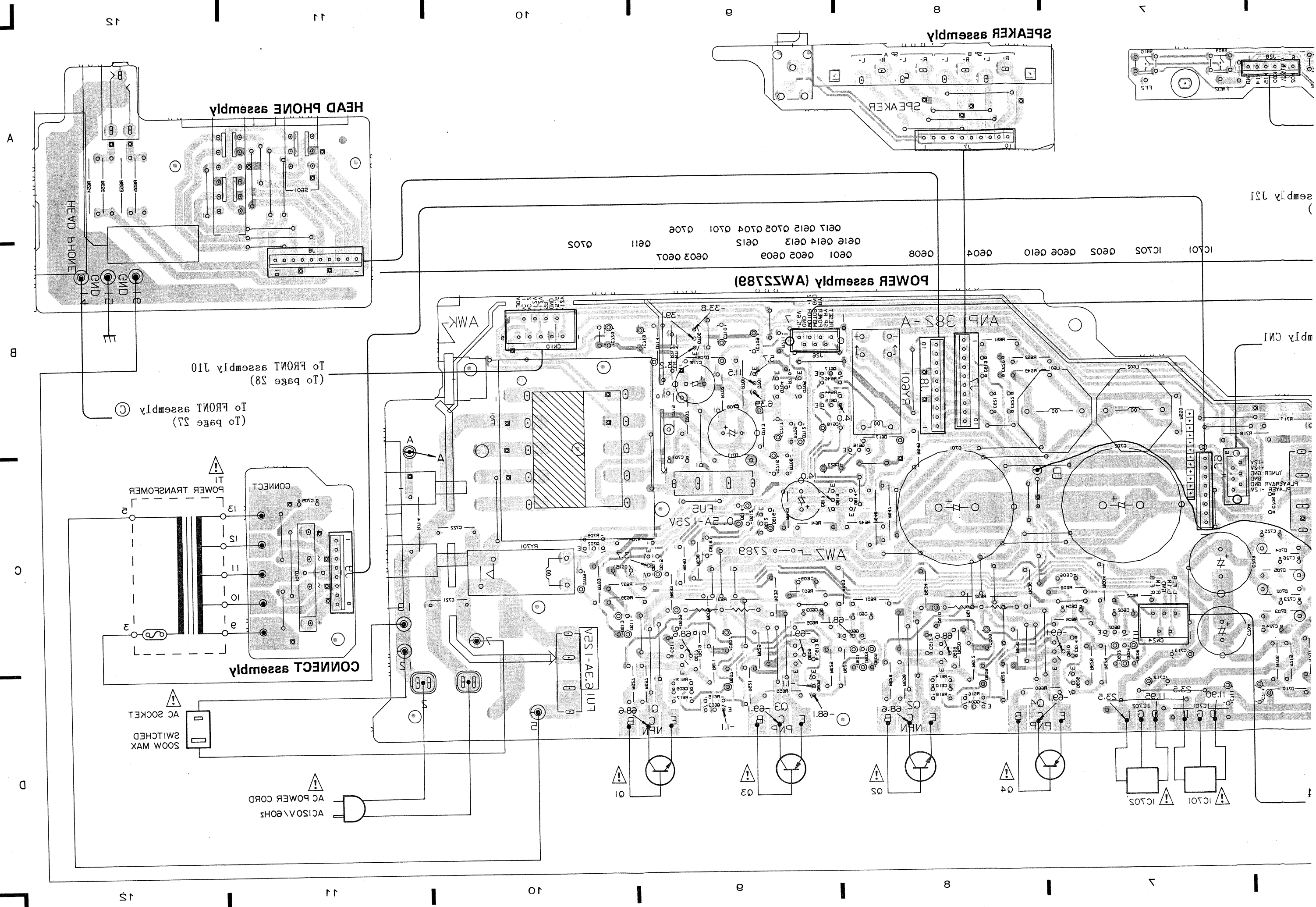
3. The capacitor terminal marked with ⊙ (double circles) shows negative terminal.

4. The diode terminal marked with ⊙ (double circles) shows cathode side.

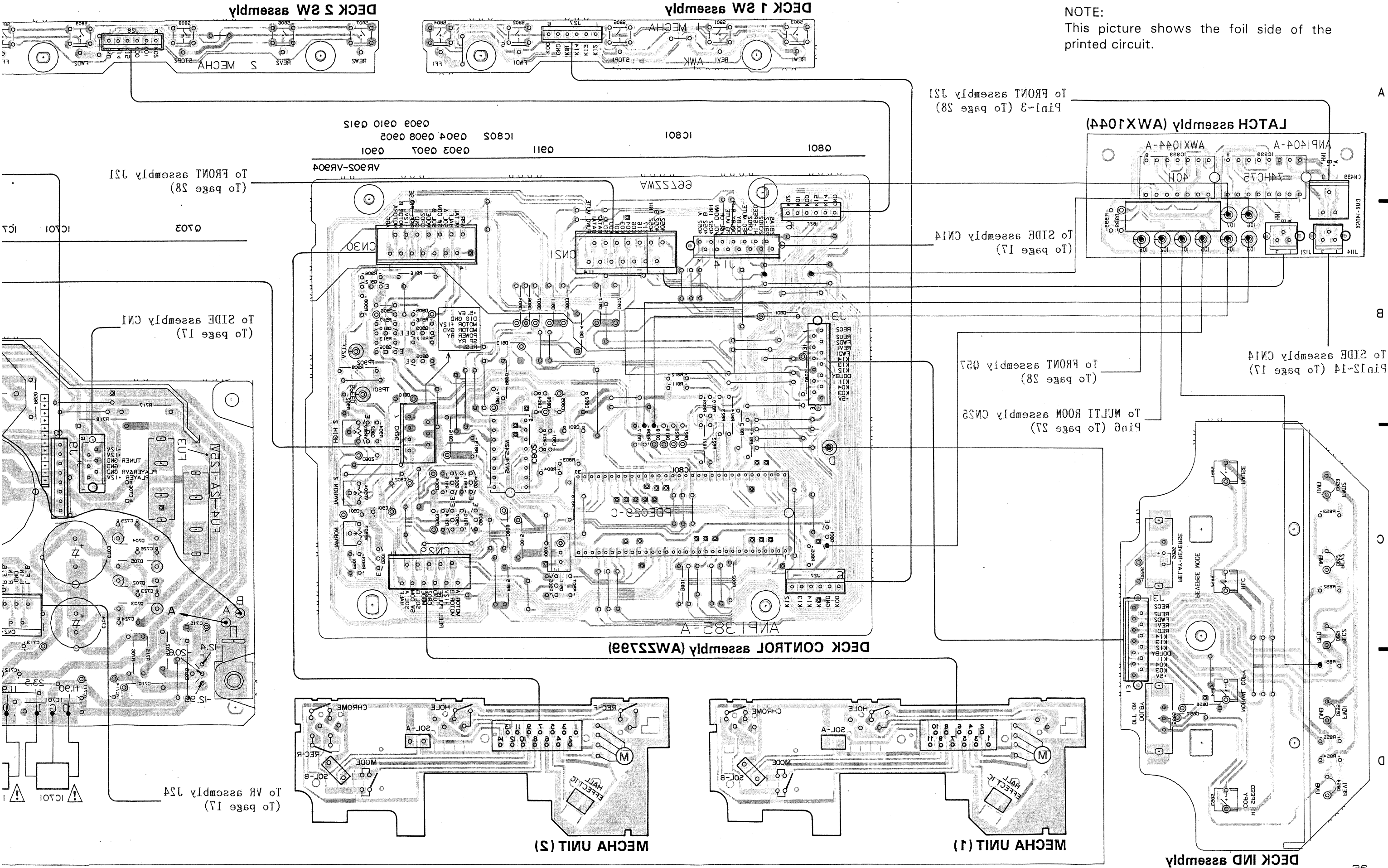
5. The transistor terminal to which E is affixed shows the emitter.

29



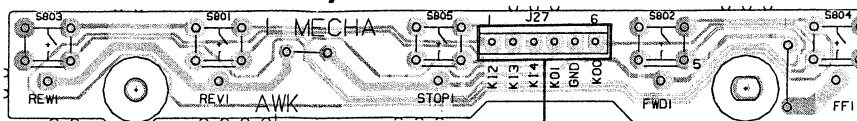


NOTE:
This picture shows the foil side of the
printed circuit.

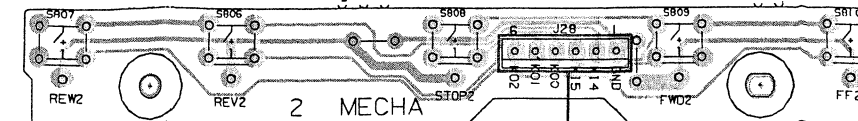


2789), SPEAKER, HEAD PHONE, CONNECT,
DECK CONTROL (AWZ2799), DECK IND, DECK 1 SW and
DECK 2 SW assembly, MECHA UNIT (1), MECHA UNIT (2)
LATCH assembly (AWX1044)

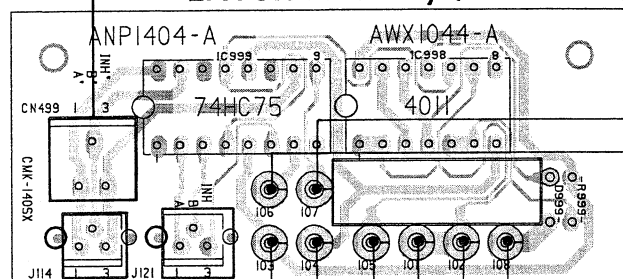
DECK 1 SW assembly



DECK 2 SW assembly



LATCH assembly (AWX1044)



To FRONT assembly J21
Pin1~3 (To page 28)

To SIDE assembly CN14
(To page 17)

B

To SIDE assembly CN14
Pin12~14 (To page 17)

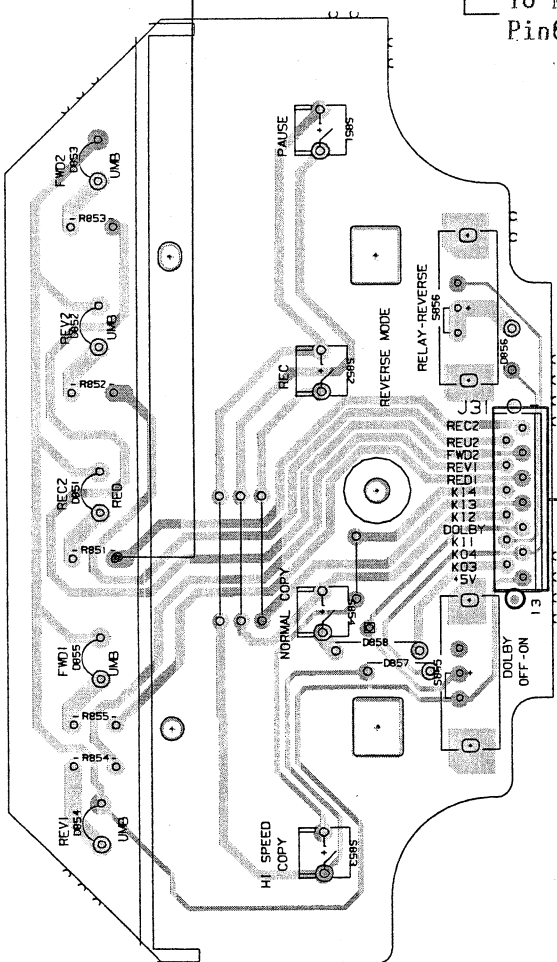
To FRONT assembly Q57
(To page 28)

To MULTI ROOM assembly CN25
Pin6 (To page 27)

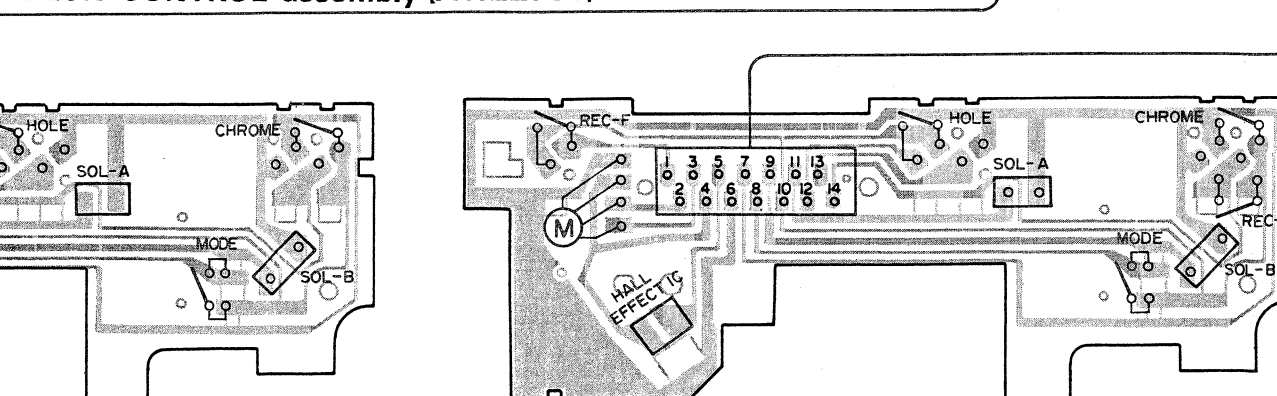
C

D

DECK IND assembly

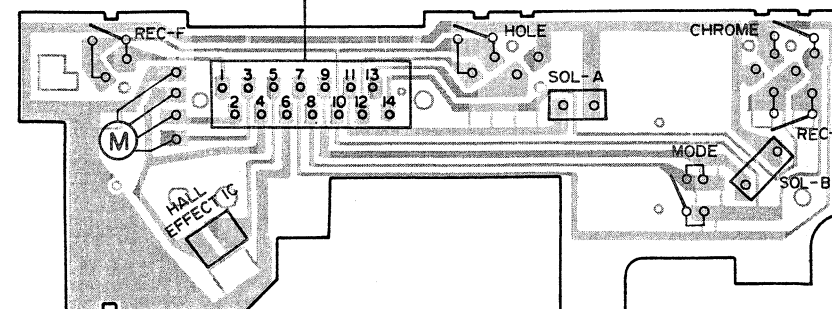
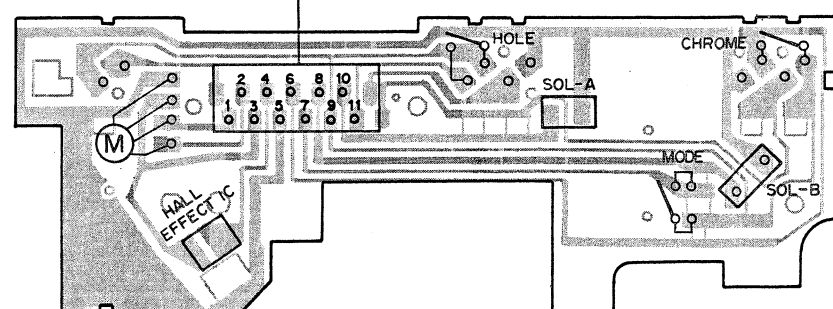


DECK CONTROL assembly (AWZ2799)



MECHA UNIT (1)

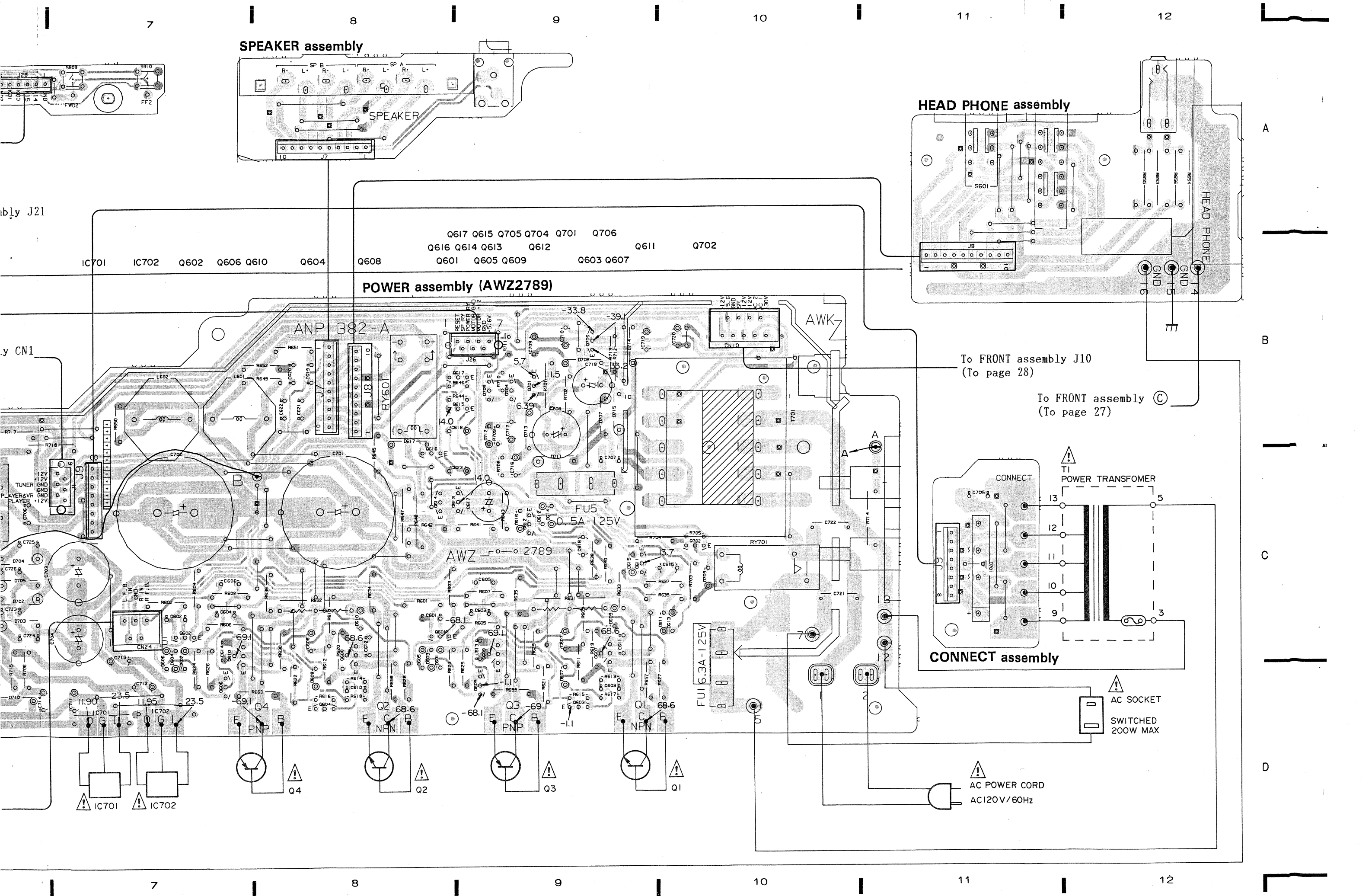
MECHA UNIT (2)

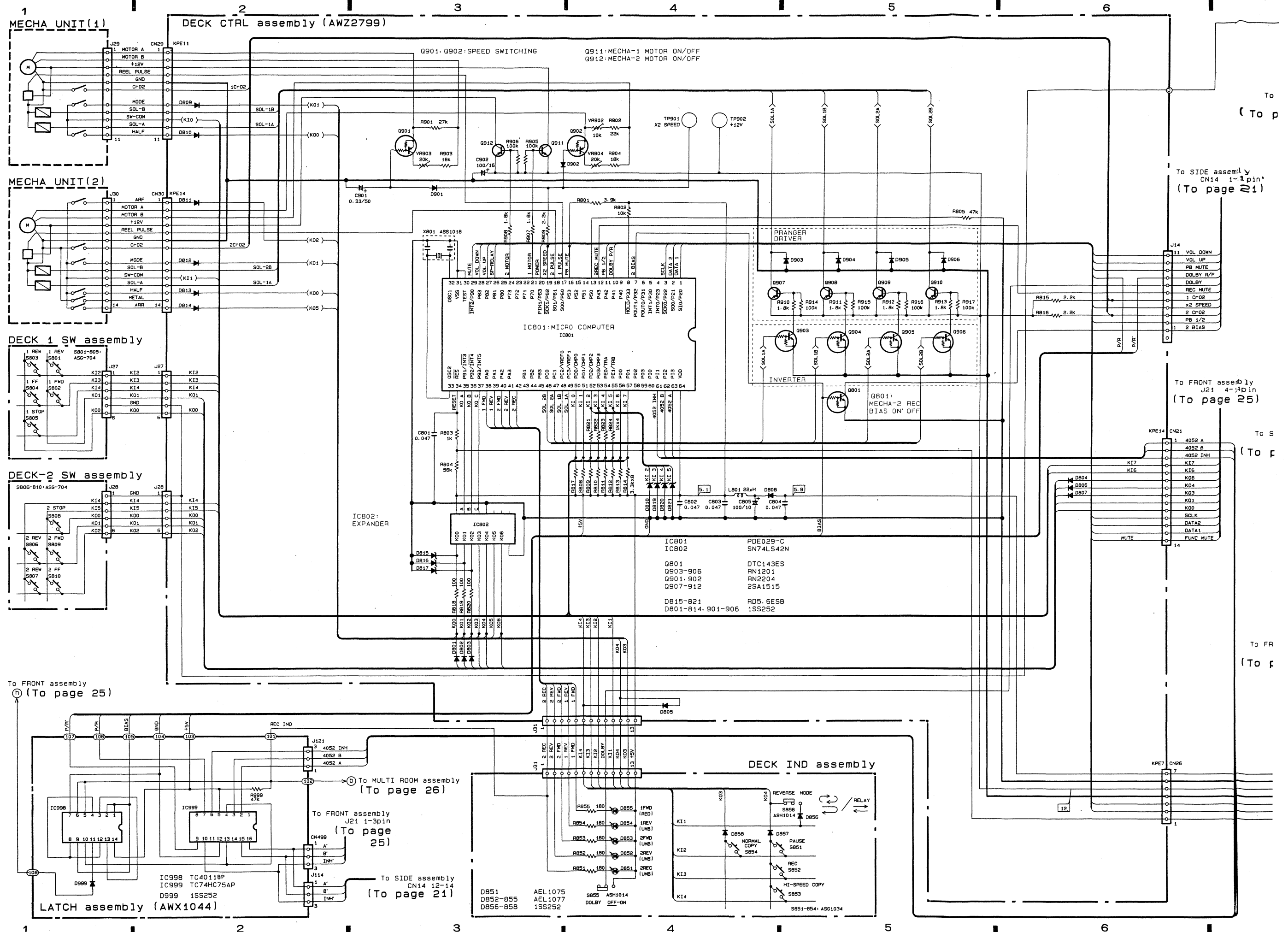


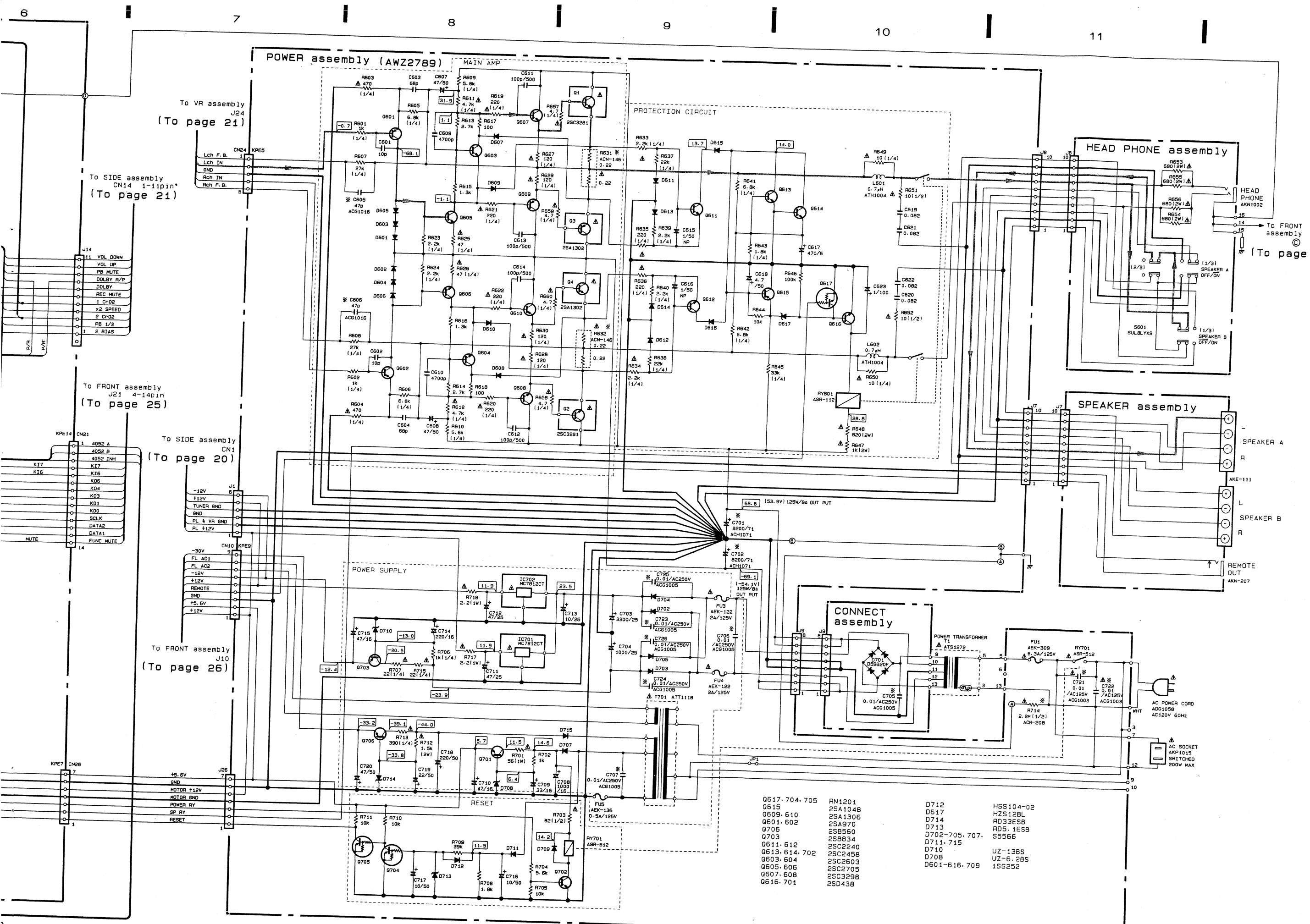
To FRONT assembly J21
(To page 28)

To SIDE assembly CN1
(To page 17)

To VR assembly J24
(To page 17)







- | | | | |
|----------------|---------|---------------|-----------|
| Q617, 704, 705 | 2SA1048 | D712 | HSS104-02 |
| Q615 | 2SA1306 | D617 | HZS12BL |
| Q609, 610 | 2SA970 | D714 | RD33ESB |
| Q601, 602 | 2SB560 | D713 | RD5.1ESB |
| Q706 | 2SB834 | D702-705, 707 | S5566 |
| Q703 | 2SC2240 | D711, 715 | UZ-13BS |
| Q611, 612 | 2SC2458 | D710 | UZ-6.2BS |
| Q613, 614, 702 | 2SC2603 | D708 | 1SS252 |
| Q603, 604 | 2SC2705 | D601-616, 709 | |
| Q605, 606 | 2SC3298 | | |
| Q607, 608 | 2SD438 | | |
| Q616, 701 | | | |

4. P.C.B 's PARTS LIST

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "⊙" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The △ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).
560Ω 56 × 10¹ 561.....RD1/4PS ⊠ ⊠ J
47kΩ 47 × 10³ 473.....RD1/4PS ⊠ ⊠ J
0.5Ω 0R5.....RN2H ⊠ ⊠ K
1Ω 010.....RS1P ⊠ ⊠ K
Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62kΩ 562 × 10¹ 5621.....RN1/4SR ⊠ ⊠ ⊠ F

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
POWER ASS'Y (AWZ2789)				RELAIIES			
SEMICONDUCTOR				CAPACITORS			
	Q601,602	TRANSISTOR	2SA970		C601,602	CERAMIC CAPACITOR	CCMSL100D50
	Q603,604	TRANSISTOR	2SC2603		C603,604	CERAMIC CAPACITOR	CCMSL680J50
	Q605,606	TRANSISTOR	2SC2705		C605,606	CERAMIC CAPACITOR	ACG1016
	Q607,608	TRANSISTOR	2SC3298				
	Q609,610	TRANSISTOR	2SA1306		C607,608	ELECTR.CAPACITOR	CEAS470M50
	Q611,612	TRANSISTOR	2SC2240		C609,610	CERAMIC CAPACITOR	CKCYB472K50
	Q613,614	TRANSISTOR	2SC2458				
	Q615	TRANSISTOR	2SA1048		C611-614	CERAMIC CAPACITOR	CCCSL101K500
	Q616	TRANSISTOR	2SD438		C615,616	ELECTR.CAPACITOR	CEANP010M50
	Q617	TRANSISTOR	RN1201		C617	ELECTROLYTIC	CEAS471M6
	Q701	TRANSISTOR	2SD438		C618	ELECTR.CAPACITOR	CEAS4R7M50
	Q702	TRANSISTOR	2SC2458		C619-622	AUDIO FILM	CFTXA823J50
	Q703	TRANSISTOR	2SB834			CAPACITOR	
	Q704,705	TRANSISTOR	RN1201		C623	ELECTR.CAPACITOR	CEAS010M100
	Q706	TRANSISTOR	2SB560		C701,702	ELECTROLYTIC	ACH1071
	D601-616	DIODE	1SS252			CAPACITOR(8200/71V)	
	D617	ZENER DIODE	HZS12BL		C703	ELECTR.CAPACITOR	CEAS332M25
	D702-705	DIODE	S5566		C704	ELECTR.CAPACITOR	CEAS102M25
	D707	DIODE	S5566		C706,707	CKA (0.01/AC250V)	ACG1005
	D708	ZENER DIODE	UZ-6.2BS				
	D709	DIODE	1SS252		C708	ELECTR.CAPACITOR	CEAS102M16
	D710	ZENER DIODE	UZ-13BS		C709	ELECTR.CAPACITOR	CEAS330M16
	D711	DIODE	S5566		C710	ELECTR.CAPACITOR	CEAS470M16
	D712	DIODE	HSS104-02		C711,712	ELECTR.CAPACITOR	CEAS470M25
	D713	ZENER DIODE	RD5.1ESB		C713	ELECTR.CAPACITOR	CEAS100M25
	D714	ZENER DIODE	RD33ESB				
	D715	DIODE	S5566		C714	ELECTR.CAPACITOR	CEAS221M16
COILS & TRANSFORMER					C715	ELECTR.CAPACITOR	CEAS470M16
	L601,602	COIL(0.7μH)	ATH1004		C716,717	ELECTR.CAPACITOR	CEAS100M50
△	T701	POWER TRANSFORMER	ATT1118		C718	ELECTR.CAPACITOR	CEAS221M50
					C719	ELECTR.CAPACITOR	CEAS220M50
					C720	ELECTR.CAPACITOR	CEAS470M50
					C721,722	CKA (0.01/AC400V)	ACG1003
					C723-726	CKA (0.01/AC250V)	ACG1005

Mark	No.	Description	Parts No.
RESISTORS			
△	R603,604	FUSEBLE RESISTOR	RFA1/4PS471J
△	R611,612	CARBON FILM RESISTOR	RD1/4PMF472J
	R613,614	CARBON FILM RESISTOR	RD1/8PM272J
	R615,616	CARBON FILM RESISTOR	RD1/8PM132J
	R617,618	CARBON FILM RESISTOR	RD1/8PM101J
△	R619-622	FUSEBLE RESISTOR	RFA1/4PS221J
△	R625,626	FUSEBLE RESISTOR	RFA1/4PS470J
△	R627-630	FUSEBLE RESISTOR	RFA1/4PS121J
△	R631,632	RESISTOR (0.22,5W)	ACN-146
△	R633,634	CARBON FILM RESISTOR	RD1/4PMF221J
△	R635,636	FUSEBLE RESISTOR	RFA1/4PS221J
	R644	CARBON FILM RESISTOR	RD1/8PM103J
	R646	CARBON FILM RESISTOR	RD1/8PM104J
△	R647	METAL OXIDE RESISTOR	RS2LMF102J
△	R648	METAL OXIDE RESISTOR	RS2LMF821J
△	R649,650	FUSEBLE RESISTOR	RFA1/4PS100J
△	R651,652	CARBON FILM RESISTOR	RD1/2PMF100J
△	R657-660	FUSEBLE RESISTOR	RFA1/4PS4R7J
△	R701	METAL OXIDE RESISTOR	RS1PMF560J
	R702	CARBON FILM	RD1/8PM102J
	R703	RESISTOR	RD1/2PMF820J
	R704	CARBON FILM RESISTOR	RD1/8PM562J
	R705	CARBON FILM RESISTOR	RD1/8PM103J
△	R707	FUSEBLE RESISTOR	RFA1/4PS220J
	R708	CARBON FILM RESISTOR	RD1/8PM182J
	R709	CARBON FILM RESISTOR	RD1/8PM393J
	R710,711	CARBON FILM RESISTOR	RD1/8PM103J
△	R712	METAL OXIDE RESISTOR	RS2LMF152J
△	R713	FUSEBLE RESISTOR	RFA1/4PS391J
△	R714	RESISTOR (2.2M,1/2W)	ACN-208
△	R715	FUSEBLE RESISTOR	RFA1/4PS220J
△	R717,718	METAL OXIDE RESISTOR	RS1PMF2R2J
		Other resistors	RD1/4PM□□□J

Mark	No.	Description	Parts No.
OTHERS			
	CN10	JUMPER CONNECTOR	KPE9
	CN24	JUMPER CONNECTOR	KPE5
SPEAKER ASS'Y			
OTHERS			
		SPEAKER TERMINAL	AKE-111
		8-P JACK	AKN-207
HEAD PHONE ASS'Y			
SWITCH			
	S601	PUSH SWITCH	SUL8LYXS
RESISTORS			
△	R653-656	METAL OXIDE RESISTOR	RS2LMF681J
OTHER			
		JACK	AKN1002
CONNECT ASS'Y			
SEMICONDUCTOR			
	D701	DIODE	D5SB20F
CAPACITOR			
	C705	CKA (0.01/AC250V)	ACG1005
FRONT ASS'Y (AWZ2793)			
SEMICONDUCTORS			
	IC101	OP-AMP IC	NJM4558DXP
	IC102-106	DISPLAY IC	BA6144
	IC51	LOGIC IC	SN74LS05N
	IC52	LLOGIC IC	M74LS03P
	IC53		PD4269
	Q101-110	TRANSISTOR	2SC1740SLN
	Q113-119	TRANSISTOR	2SC2458
	Q51,52	TRANSISTOR	DTA143ES
	Q53,54	TRANSISTOR	RN2201
	Q56	TRANSISTOR	DTC124ES
	Q57	TRANSISTOR	RN2201
	Q58	TRANSISTOR	RN1201
	Q59	TRANSISTOR	RN2201
	Q60	TRANSISTOR	2SC1740S
	Q62	TRANSISTOR	RN1203

Mark	No.
	D101-104
	D105
	D107-114
	D51-55
	D56
	D57-60
	D61
	D62-65
	D68
	D69
	D70
	D71,72
COILS	
	L51
SWITCHES	
	S51-75
CAPACITORS	
	C101,102
	C103,104
	C105,106
	C107,108
	C109,110
	C111,112
	C113,114
	C115,116
	C117,118
	C119,120
	C121,122
	C123
	C125,126
	C127,128
	C129
	C130
	C131,132
	C133
	C134,135
	C136
	C137,138
	C139
	C140,141

Mark	No.	Description	Parts No.
	D101-104	DIODE	1SS252
	D105	LED	AEL1111
	D107-114	DIODE	1SS252
	D51-55	LED	AEL1077
	D56	LED(RED)	AEL1038
	D57-60	DIODE	1SS252
	D61	ZENER DIODE	RD15ESB
	D62-65	DIODE	1SS252
	D68	ZENER DIODE	RD5.1ESB
	D69	DIODE	1SS252
	D70	ZENER DIODE	RD7.5ESB
	D71,72	DIODE	1SS252
COILS			
	L51	AXIAL INDUCTOR	LAU220K
SWITCHES			
	S51-75	SWITCH (ST 1-12, MEMORY, BAND, F UP, F DOWN, CLOCK ADJ, FM MONO, SET, CD, TAPE, P- HONO, TUNER, POWER, VIDEO/AUX)	ASG1034
CAPACITORS			
	C101,102	ELECTROLYTIC CAPACITOR	CEJAR33M50
	C103,104	CERAMIC CAPACITOR	CKDYX393M25
	C105,106	AUDIO FILM CAPACITOR	CFTXA124J50
	C107,108	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C109,110	CERAMIC CAPACITOR	CKDYX393M25
	C111,112	CERAMIC CAPACITOR	CKDYB392K50
	C113,114	CERAMIC CAPACITOR	CKDYX153M25
	C115,116	CERAMIC CAPACITOR (1000p/50V)	ACG1020
	C117,118	CERAMIC CAPACITOR	CKDYB332K50
	C119,120	CERAMIC CAPACITOR (470p/50V)	ACG1019
	C121,122	CERAMIC CAPACITOR	CCMSL820J50
	C123	ELECTR.CAPACITOR	CEAS101M16
	C125,126	ELECTR.CAPACITOR	CEAS2R2M50
	C127,128	ELECTR.CAPACITOR	CEAS470M16
	C129	CERAMIC CAPACITOR	CKCYF473Z50
	C130	ELECTR.CAPACITOR	CEAS330M16
	C131,132	CERAMIC CAPACITOR	CKCYX473M25
	C133	ELECTR.CAPACITOR	CEASR33M50
	C134,135	CERAMIC CAPACITOR	CKCYX183M25
	C136	ELECTR.CAPACITOR	CEASR22M50
	C137,138	CERAMIC CAPACITOR	CKCYB682K50
	C139	CERAMIC CAPACITOR	CKCYX333M25
	C140,141	CERAMIC CAPACITOR	CKCYB272K50

Mark	No.	Description	Parts No.
	C142	CERAMIC CAPACITOR (0.022/50V)	ACG1022
	C143,144	CERAMIC CAPACITOR	CKCYB821K50
	C145	CERAMIC CAPACITOR	CKCYB332K50
	C146-150	ELECTR.CAPACITOR	CEAS100M25
	C151,152	CERAMIC CAPACITOR (47p/50V)	ACG1016
	C51	CERAMIC CAPACITOR	CKCYX473Z25
	C52	ELECTR.CAPACITOR	CEAS4R7M50
	C53	CERAMIC CAPACITOR	CKCYF103Z50
	C54	ELECTR.CAPACITOR	CEAS100M50
	C55	ELECTR.CAPACITOR	CEAS470M16
	C56	CEA (47000/5.5V)	ACH1070
	C57	CERAMIC CAPACITOR	CKCYX473M25
	C58	ELECTR.CAPACITOR	CEAS470M16
	C59	ELECTR.CAPACITOR	CEASR22M50
	C60	ELECTR.CAPACITOR	CEAS100M50
	C61,62	CERAMIC CAPACITOR (1000p/50V)	ACG1020
	C63	ELECTR.CAPACITOR	CEAS470M16
	C64	ELECTR.CAPACITOR	CEAS100M50
	C65	ELECTR.CAPACITOR	CEAS4R7M50
RESISTORS			
	VR101-110	VR(100k)	ACU1032
	VR111	VR(250k)	ACS1052
	R100	CARBON FILM RESISTOR	RD1/4PM390J
	R196-199	CARBON FILM RESISTOR	RD1/4PM390J
	R56	CARBON FILM	RD1/2PM821J
	R92	RESISTOR CARBON FILM	RD1/2PM271J
	R96	CARBON FILM RESISTOR	RD1/4PM562J
		Other resistors	RD1/8PM□□□J
OTHERS			
		2-P HAUSING REMOTE RECEIVER UNIT	ADX1190 AXX1010
	V51	FL TUBE	AAV1070
	X51	CERAMIC RESONATOR (4.19MHz)	ASS1018
MULTI ROOM ASSEMBLY			
SEMICONDUCTOR			
	D67	ZENER DIODE	RD5.1ESB
SWITCH			
	S76	SLIDE SWITCH(VSP)	ASH1009

Mark	No.	Description	Parts No.
CAPACITORS			
	C66,67	CERAMIC CAPACITOR	CKCYF103Z50
RESISTORS			
	R91	CARBON FILM RESISTOR	RD1/8PM681J
	R98	CARBON FILM RESISTOR	RD1/8PM100J
OTHER			
		JACK (MULTI ROOM IN)	AKN1020
VR IND ASSEMBLY			
SEMICONDUCTOR			
	D66	LED(RED)	AEL1040
SHIELD ASSEMBLY			
There is no supply parts on this assembly			
SIDE ASSEMBLY (AWZ2797)			
SEMICONDUCTORS			
	IC201	AM/FM IC	LA1265S
	IC202	PLL IC	LM7001
	IC203	MPX IC	AN7470P
	IC301,302	OP-AMP IC	NJM4558DXP
	IC303	LOGIC IC	TC4052BP
	IC304	OP-AMP IC	NJM4558DXP
	IC401	LOGIC IC	TC4066BP
	IC402	OP-AMP IC	NJM4558DXP
	IC403	LOGIC IC	TC4066BP
	IC404	DOLBY-B IC	CXA1100P
	IC405	LOGIC IC	SN74LS05N
	IC406	OP-AMP IC	NJM4558DXP
	Q201	MOS FET	S2K241
	Q202	TRANSISTOR	2SC2786
	Q203	TRANSISTOR	2SC2668
	Q204	N-FET	2SK161
	Q205	TRANSISTOR	2SC2668
	Q206,207	TRANSISTOR	RN2201
	Q208	TRANSISTOR	2SC1740SLN
	Q209	N-FET	2SK246
	Q210	TRANSISTOR	2SC1740S
	Q301,302	TRANSISTOR	2SC1740S
	Q303	TRANSISTOR	2SA933S
	Q304	TRANSISTOR	2SA1048
	Q305,306	TRANSISTOR	2SC2878

Mark	No.	Description	Parts No.
	Q307	TRANSISTOR	2SD438
	Q308	TRANSISTOR	2SA970
	Q401,402	TRANSISTOR	2SC2458
	Q403,404	N-FET	2SK373
	Q405-410	TRANSISTOR	2SC2458
	Q411,412	TRANSISTOR	2SA1515
	Q413	TRANSISTOR	2SA1048
	Q414	TRANSISTOR	2SC2603
	Q415	TRANSISTOR	RN1203
	Q416	TRANSISTOR	RN2203
	Q417	TRANSISTOR	RN1201
	Q418-421	TRANSISTOR	RN1203
	Q423-426	TRANSISTOR	2SC2458
	Q427	TRANSISTOR	DTC143ES
	Q428	TRANSISTOR	DTA143ES
	Q429,430	TRANSISTOR	2SC2878
	Q431,432	TRANSISTOR	2SC2458
	Q433	TRANSISTOR	2SA1048
	D201,202	VARI-CAP DIODE	ITT310
	D203-208	DIODE	1SS252
	D301	ZENER DIODE	RD5.6ESB3
	D302	ZENER DIODE	RD8.2ESB2
	D401-404	DIODE	MA859
	D405-416	DIODE	1SS252
FILTERS			
	F201	CERAMIC FILTER	ATF-155
	F202,203	CERAMIC FILTER	ATF-107
	F204	CERAMIC FILTER	ATF-208
	F401,402	FILTER	ATF-210
COILS & TRANSFORMER			
	L201	COIL	ATC1003
	L202	COIL	ATE-079
	L203,204	AXIAL INDUCTOR	LAU2R2M
	L401,402	AXIAL INDUCTOR	LAU221K
	L403,404	INDUCTOR	LTA822J
	L405,406	INDUCTOR	LTA272J
	L407	INDUCTOR	LTA102J
	T201	COIL	ATC-194
	T202	IF TRANSFORMER	ATE-063
	T401	OSC TRANSFORMER	ATX-043
SWITCH			
	S401	SWITCH(BEAT CUT)	ASH1015
CAPACITORS			
	C203	CERAMIC CAPACITOR	CCMCH040C50
	C204	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C205	CERAMIC CAPACITOR	CCDRH180J50
	C206	ELECTR.CAPACITOR	CEAS330M16
	C207	CERAMIC CAPACITOR	CCDCH020C50

Mark	No.	Description	Parts No.
	C208	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C209	CERAMIC CAPACITOR (100P/50V)	ACG1017
	C210	CERAMIC CAPACITOR	CCDCH010C50
	C211	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C212	CERAMIC CAPACITOR	CCMCH330J50
	C213	CERAMIC CAPACITOR	CCMCH150J50
	C214	CERAMIC CAPACITOR	CCMCH080D50
	C215	CERAMIC CAPACITOR (1000p/50V)	ACG1020
	C216	CERAMIC CAPACITOR	CCDTH150J50
	C217	CERAMIC CAPACITOR	CCMCH150J50
	C218-220	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C221	CERAMIC CAPACITOR (0.022/50V)	ACG1022
	C222	AUDIO FILM CAPACITOR	CFTXA104J50
	C223,224	CERAMIC CAPACITOR (0.022/50V)	ACG1022
	C225	ELECTR.CAPACITOR	CEAS330M16
	C226	CERAMIC CAPACITOR (47p/50V)	ACG1016
	C227	CERAMIC CAPACITOR (100p/50V)	ACG1017
	C228-230	CERAMIC CAPACITOR (0.022/50V)	ACG1022
	C231	ELECTR.CAPACITOR	CEAS330M16
	C232	ELECTR.CAPACITOR	CEAS010M50
	C233	CERAMIC CAPACITOR	CCDSL271J50
	C234	ELECTR.CAPACITOR	CEAS4R7M50
	C235	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C236	ELECTR.CAPACITOR	CEAS470M16
	C237	ELECTR.CAPACITOR	CEAS2R2M50
	C238	CERAMIC CAPACITOR	CKDYB222K50
	C239	CERAMIC CAPACITOR	CKDYF473Z50
	C240	AUDIO FILM CAPACITOR	CFTXA104J50
	C241	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C242	ELECTROLYTIC CAPACITOR	CEAS1R5M50
	C243	ELECTR.CAPACITOR	CEAS101M16
	C244,245	CERAMIC CAPACITOR	CCMCH150J50
	C246	CERAMIC CAPACITOR (100p/50V)	ACG1017
	C247	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C248	ELECTR.CAPACITOR	CEANP2R2M50
	C249	CERAMIC CAPACITOR	CKCYF473Z50
	C250	(470p/50V)	ACE1039

Mark	No.	Description	Parts No.
	C251	ELECTR.CAPACITOR	CEAS3R3M50
	C252	ELECTROLYTIC CAPACITOR	CEAS1R5M50
	C253	ELECTR.CAPACITOR	CEASR22M50
	C254	CERAMIC CAPACITOR (0.022/50V)	ACG1022
	C255	ELECTR.CAPACITOR	CEAS0R1M50
	C256	ELECTR.CAPACITOR	CEAS330M16
	C257,258	CERAMIC CAPACITOR	CKMYB152K50
	C259,260	ELECTR.CAPACITOR	CEAS2R2M50
	C261,262	CERAMIC CAPACITOR	CKCYB682K50
	C263	ELECTR.CAPACITOR	CEAS330M16
	C264-266	ELECTR.CAPACITOR	CEAS470M16
	C301,302	CERAMIC CAPACITOR	CKMYB391K50
	C303,304	ELECTR.CAPACITOR	CEAS2R2M50
	C305,306	CERAMIC CAPACITOR (100p/50V)	ACG1017
	C307,308	ELECTR.CAPACITOR	CEAS470M16
	C309,310	CERAMIC CAPACITOR	CKDYB222K50
	C311,312	CERAMIC CAPACITOR	CKCYB822K50
	C313,314	ELECTR.CAPACITOR	CEAS330M16
	C315,316	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C317,318	ELECTR.CAPACITOR	CEAS2R2M50
	C319,320	ELECTR.CAPACITOR	CEAS470M16
	C332	CERAMIC CAPACITOR	CKCYF473Z50
	C333-336	ELECTR.CAPACITOR	CEAS2R2M50
	C343,344	ELECTR.CAPACITOR	CEAS470M16
	C345,346	ELECTR.CAPACITOR	CEAS100M25
	C403,404	CERAMIC CAPACITOR	CKMYB221K50
	C405,406	CERAMIC CAPACITOR	CCDSL560K500
	C407,408	CERAMIC CAPACITOR	CCMSL100D50
	C411,412	ELECTR.CAPACITOR	CEAS330M16
	C413,414	MYLOR FILM CAPACITOR	CQMA682J50
	C415,416	ELECTR.CAPACITOR	CEAS470M16
	C417,418	CERAMIC CAPACITOR	CKCYX333M25
	C419,420	AUDIO FILM CAPACITOR	CFTXA103J50
	C421,422	AUDIO FILM CAPACITOR	CFTXA104J50
	C423-426	ELECTR.CAPACITOR	CEAS010M50
	C427,428	CERAMIC CAPACITOR	CCDSL271K500
	C429,430	CERAMIC CAPACITOR	CCDSL101K500
	C431	CQPA (2000P/630V)	ACE1020
	C432	CERAMIC CAPACITOR	CKDYB272K500
	C433	MYLOR FILM CAPACITOR	CQMA562K400
	C434	CERAMIC CAPACITOR	CKMYB681K50
	C435	MYLOR FILM CAPACITOR	CQMA123K250
	C436	CERAMIC CAPACITOR	CKMYB221K50

Mark	No.	Description	Parts No.
	C437	MYLOR FILM CAPACITOR	CQMA103K50
	C438	MYLOR FILM CAPACITOR	CQMA153K50
	C439	MYLOR FILM CAPACITOR	CQMA103K50
	C440	ELECTR.CAPACITOR	CEAS4R7M50
	C441,442	ELECTR.CAPACITOR	CEAS470M16
	C443	ELECTR.CAPACITOR	CEAS101M16
	C444	CERAMIC CAPACITOR	CKCYF473Z50
	C445,446	ELECTR.CAPACITOR	CEASR68M50
	C447-450	ELECTR.CAPACITOR	CEASS2R2M50
	C451,452	ELECTR.CAPACITOR	CEAS330M16
	C453,454	AUDIO FILM CAPACITOR	CFTXA330J50
	C455,456	MYLOR FILM CAPACITOR	CQMA562J50
	C457,458	MYLOR FILM CAPACITOR	CQMA133J50
	C459,460	MYLOR FILM CAPACITOR	CQMA163J50
	C461,462	ELECTR.CAPACITOR	CEAS330M16
	C463,464	AUDIO FILM CAPACITOR	CFTXA683J50
	C465,466	MYLOR FILM CAPACITOR	CQMA182J50
	C467,468	ELECTR.CAPACITOR	CEAS2R2M50
	C469,470	CERAMIC CAPACITOR	CKMYB681K50
	C471-474	ELECTR.CAPACITOR	CEAS2R2M50
	C475,476	ELECTR.CAPACITOR	CEAS220M16
	C477	CERAMIC CAPACITOR	CKCYF473Z50
	C478	ELECTR.CAPACITOR	CEAS470M16
	C479	ELECTR.CAPACITOR	CEAS010M50
	C481,482	CERAMIC CAPACITOR	CCMSL101J50
	C483,484	CERAMIC CAPACITOR	CKCYF103Z50

RESISTORS

	VR201	VR(4.7K)	ACP1024
	VR401,402	VR	VRTM6V104
	VR403,404	VR	VRTM6V203
	VR405,406	VR	VRTM6V204
	VR407,408	VR	VRTM6V203
	R263	CARBON FILM RESISTOR	RD1/4PM151J
△	R307,308	CARBON FILM RESISTOR	RD1/2PMFL100J
△	R347,348	CARBON FILM RESISTOR	RD1/2PMF220J
	R363	CARBON FILM RESISTOR	RD1/4PM182J
	R364	CARBON FILM RESISTOR	RD1/4PM122J

Mark	No.	Description	Parts No.
	R365	CARBON FILM RESISTOR	RD1/4PM471J
	R366	CARBON FILM RESISTOR	RD1/4PM271J
	R435	CARBON FILM RESISTOR	RD1/2PM180J
		Other resistors	RD1/8PM□□□J

OTHERS

		ANTENNA TERMINAL 4-P	AKA1009
		PHONO JACK 6-P	AKB1023
		JACK(PL +12V)	AKN-203
	T203	AM RF TUNING BLOCK	AXX1011
	CN1	JUMPER CONNECTOR 6-P	KPE6
	CN13	JUMPER CONNECTOR 15-P	KPE15
	CN14	JUMPER CONNECTOR 15-P	KPE15
	CN23	JUMPER CONNECTOR 11-P	KPE11
	X201	CERAMIC RESONATOR (450kHz)	ATF1027
	X202	CRYSTAL(7.200MHz) RESONATOR	ASS1005

VR ASSEMBLY
SEMICONDUCTORS

	IC305		TA7291S
	IC306,307	OP-AMP IC	NJM4558DXP

CAPACITORS

	C321,322	CERAMIC CAPACITOR	CCMSL330J50
	C323,324	ELECTR.CAPACITOR	CEAS221M10
	C325,326	CERAMIC CAPACITOR (47p/50V)	ACG1016
	C327,328	ELECTR.CAPACITOR	CEAS2R2M50
	C329,330	ELECTR.CAPACITOR	CEAS101M16
	C331	CERAMIC CAPACITOR	CKDYF473Z50
	C337,338	ELECTR.CAPACITOR	CEAS100M25
	C339,340	ELECTR.CAPACITOR	CEAS2R2M50
	C341,342	CERAMIC CAPACITOR (0.01/50V)	ACG1021
	C347,348	CERAMIC CAPACITOR (47p/50V)	ACG1016

RESISTORS

	VR301	VR(100k)	ACX1037
△	R351	CARBON FILM RESISTOR	RD1/2PMFL330J
		Other resistors	RD1/8PM□□□J

OTHER

	CN12	JUMPER CONNECTOR 3-P	KPE3
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Mark	No.	Description	Parts No.
DECK CONTROL ASSEMBLY (AWZ2799)			
SEMICONDUCTORS			
IC801			PDE029-C
IC802	LOGIC IC		SN74LS42N
Q801	TRANSISTOR		DTC143ES
Q901,902	TRANSISTOR		RN2204
Q903-906	TRANSISTOR		RN1201
Q907-912	TRANSISTOR		2SA1515
D801-814	DIODE		1SS252
D815-821	ZENER DIODE		RD5.6ESB
D901-906	DIODE		1SS252
COIL			
L801	AXIAL INDUCTOR		LAU220K
CAPACITORS			
C801-804	CERAMIC CAPACITOR		CKCYF473Z50
C805	ELECTR.CAPACITOR		CEAS101M10
C901	ELECTR.CAPACITOR		CEASR33M50
C902	ELECTR.CAPACITOR		CEAS101M16
RESISTORS			
VR902	VR		VRTM6H103
VR903,904	VR		VRTM6H203
	Other resistors		RD1/8PM□□□J
OTHERS			
CN21	JUMPER CONNECTOR		KPE14
	14-P		
CN26	JUMPER CONNECTOR		KPE7
	7-P		
CN29	JUMPER CONNECTOR		KPE11
	11-P		
CN30	JUMPER CONNECTOR		KPE14
	14-P		
X801	CERAMIC RESONATOR		ASS1018
	(4.19MHz)		

DECK IND ASSEMBLY
SEMICONDUCTORS

D851	LED(RED)	AEL1075
D852-855	LED	AEL1077
D856-858	DIODE	1SS252

SWITCHES

S851-854	SWITCH (PAUSE,REC,HI-SPEE- D COPY,NORMAL COPY)	ASG1034
S855,856	SWITCH (DOLBY,REVERSE MODE)	ASH1014

Mark	No.	Description	Parts No.
RESISTORS			
		All resistors	RD1/8PM□□□J
DECK1 SW ASSEMBLY			
SWITCHES			
S801-805	SWITCH (1 REW,1 REV,1 FF,1 FWD,1 STOP)		ASG-704
DECK2 SW ASSEMBLY			
SWITCHES			
S806-810	SWITCH (2 REW,2 REV,2 FF,2 FWD,2 STOP)		ASG-704
LATCH ASSEMBLY (AWX1044)			
SEMICONDUCTORS			
IC998	LOGIC IC		TC4011BP
IC999	LOGIC IC		TC74HC75AP
D999	DIODE		1SS252
RESISTORS			
R999	CARBON RESISTOR		RD1/8PM473J
OTHERS			
CN499	JUMPER CONNECTOR		KPE3
	3-P		

5. ADJUSTMENTS

5.1 TAPE DECK SECTION

5.1.1 Mechanical adjustment

• Adjustment point are as shown in Fig. 5-1

1. Connect the frequency counter to the TP901 terminal (Tape speed) on the DECK CTRL assembly.
2. Turn the Power switch on.
3. Mount the test tape STD-301 onto deck I.
4. Short circuit between terminals TP901 and TP902 on the DECK CTRL assembly and put the deck I into play mode. (STD-301 is play backed in double speed.)
5. Adjust with VR902 so that the playback signal frequency of deck I becomes $6020\text{Hz} \pm 20\text{Hz}$.
6. Release the short circuit between terminals TP901 and TP902.
7. Put the deck I into play mode and adjust with VR903 so that the playback signal frequency becomes $3010\text{Hz} \pm 10\text{Hz}$.
(Note 1: Be sure not to turn VR902 while performing the normal speed adjustment.)
(Note 2: Be sure to first perform double speed adjustment in both Decks I and II.)
8. At this point, be sure to confirm that wow and flutter are within 0.3% both in the double and normal speeds.

9. Mount the test tape STD-301 onto deck II.
10. Short circuit between terminals TP901 and TP902 on the DECK CTRL assembly A and put the deck II into play mode. (STD-301 is play backed in double speed.)
11. Adjust with VR902 so that the playback signal frequency of deck II becomes $6020\text{Hz} \pm 20\text{Hz}$.
12. Release the short-circuit between terminals TP901 and TP902.
13. Put the deck II into play mode and adjust with VR904 so that the playback signal frequency of deck II becomes $3010\text{Hz} \pm 10\text{Hz}$.
(Note: Be sure not to turn VR902 while performing the normal speed adjustment.)
14. At this point, be sure to confirm that the wow and flutter within 0.3% both in the double and normal speeds.

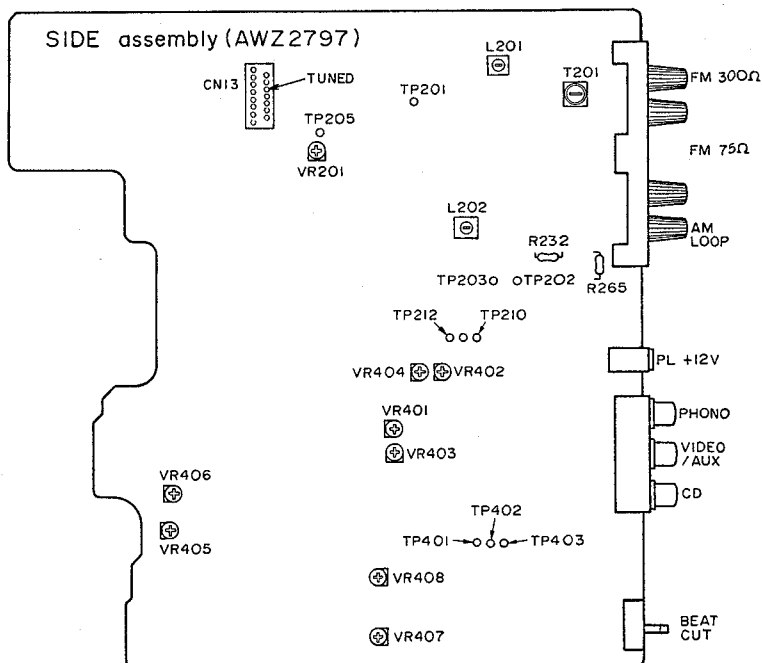
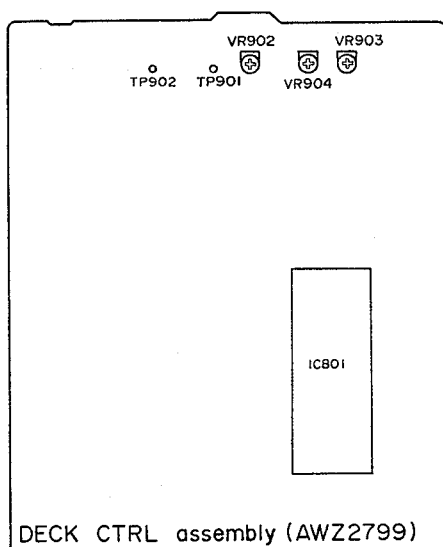


Fig. 5-1 Adjustments point

5.1.2 Electrical adjustment

Adjustment Conditions

1. The mechanical adjustments must be completed first.
2. The head must be cleaned and demagnetized.
3. Turn power on allow the deck to warm up for at least a few minutes before commencing any electrical adjustments.
4. The reference signal is 0dBv=1Vrms.
5. Connect a 50 kilo-ohm (or between 47 to 52 kilo-ohm) load resistance to the OUTPUT terminals.
6. Unless otherwise specified, the switches listed below are left in the positions indicated.
DOLBY NR :OFF
TAPE SELECTOR :NORM

List of Adjustments

PLAYBACK SECTION

1. Head azimuth adjustment.
2. Playback level adjustment.

RECORDING SECTION

1. Recording bias adjustment.
2. Recording level adjustment.

NOTE: This unit has an automatic tape selection feature.

Test Tapes

- STD-331B :Playback adjustments
(See Fig. 5-2)
STD-608A :NORMAL blank tape
STD-620 :CrO₂ blank tape
STD-610 :METAL blank tape

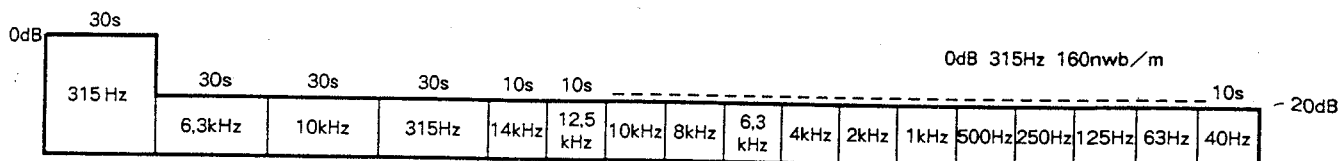


Fig. 5-2 Constants of the test tape STD-331B

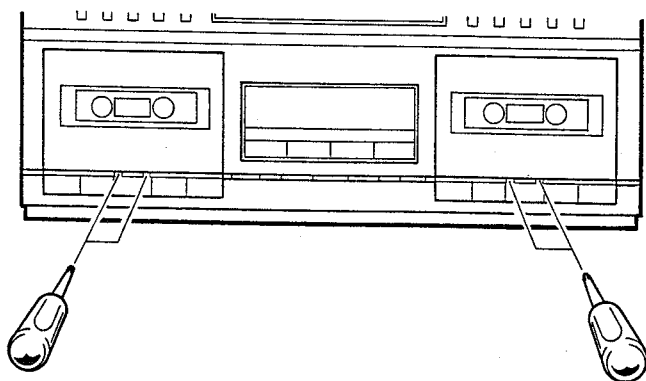


Fig. 5-3 Head azimuth adjustment

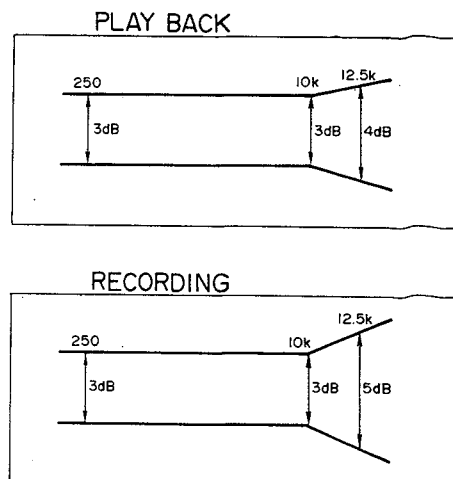


Fig. 5-4 Frequency response

DECK (PLAYBACK SECTION)

1. Head Azimuth Adjustment

- Turn VR403 and 404, (Deck I) or VR401 and 402, (Deck II) to mechanical center positions.

NO	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	PLAY	Play the 10kHz/−20dB section of STD-331B test tape.	Head azimuth adjustment screw. (See Fig. 5-3)	TP401 (L) TP403 (R)	Maximum playback signal level.	
2.	STOP	Lock the screw with scrwe lock after completing adjustment.				

2. Playback level Adjustment

- This adjustment determines the DOLBY NR level, and must be performed with great care.

NO	Mode	Input signal & test tape	Adjustment location		Measuring location	Adjustment value	Remarks
1.	PLAY	Play the 315Hz/0dB section of the STD-331B test tape.	Deck I	VR403 (Lch) VR404 (Rch)	TP401 (Lch) TP403 (Rch)	−5.2 dBv ±0.5 dBv	Adjust the playback level first at DECK I, and then at DECK II.
			Deck II	VR401 (Lch) VR402 (Rch)			

DECK (RECORDING SECTION)

1. Recording Bias Adjustment

- After the adjustment, caution should be exercised so as not to become under bias by checking the distortion rate.

NO	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	STOP	Set the TAPE SELECTOR switch to the NORM position.				
2.	REC	STD-630 (NORM) −20dB	Deck II	VR405 (Lch) VR406 (Rch)	LINE OUT	0dB ±0.5dB (10kHz/315Hz)

2. Recording Level Adjustment

NO	Mode	Input signal & test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1.	STOP	Set the TAPE SELECTOR switch to the NORM position.				
2.	REC PAUSE	Apply a 315Hz/0dBv signal to the Line Input terminals.	Rec Level contorol	TP401 (Lch) TP403 (Rch)	−5.2 dBv	
3.		Set the DOLBY NR switch to the ON position. (DOLBY B)				
4.	REC/PLAY	Record the above signal on-to the STD-630 test tape, and playback.	Deck II	VR407 (Lch) VR408 (Lch)	TP401 (Lch) TP403 (Rch)	−5.2dBv ±0.5dB
5.	STOP	Set the TAPE SELECTOR switch to the CrO ₂ position.				
6.	REC/PLAY	Record the above signal on-to the STD-620 test tape, and playback.	Confirm	TP401 (Lch) TP403 (Rch)	−4.5dBV ±2dB	
7.	STOP	Set the TAPE SELECTOR switch to the METAL position.				

5.2 TUNER SECTION

5.2.1 FM (MONO) Tuner adjustment

- Adjustment point are as shown in Fig. 5-1.
- Make the wire connections as shown in Fig. 5-5.
- Set the function to FM (MONO)

FM MONO

Item	Adjustment location	Measuring location	Adjustment value	Conditions
Sensitivity adjustment	T201	TP210 TP212	Maximam voltage	Level at which the standard modulation of 98MHz does not saturats voltage of TP204
Tuning voltage check at 87.5 MHz	—	TP201	3.5V $\pm$ 1.5V	—
Tuning voltage check at 108 MHz	—	TP201	8.7V $\pm$ 1.3V -2V	Adjust the L201,if out of specification
T METER adjustment	L202	TP202 TP203	Voltage difference 0V $\pm$ 10mV	Standard modulation at 98MHz 60dB μ V
TUNED IND lighting level adjustment	R265	※ CN "TUNED"		Separate R265,if ouf of specification at standard modulation at 98MHz 60dB

※ 10k Ω are applied to the "TUNED" terminal (+B = 5V).
TUNED IND lights up at "L" level.

5.2.2 FM (STEREO) Tuner adjustment

- Adjustment point are as shown in Fig. 5-1.
- Make the wire connections as shown in Fig. 5-5.
- Set the function to FM (STEREO)

Playback Section

FM STEREO

Item	Adjustment location	Measuring location	Adjustment value	Conditions
MPX VCO Adjustment	VR201	TP205	76kHz $\pm$ 100Hz	Non modulation at 98MHz 80dB μ V
Confirmation of distortion factor check	—	TP210, TP212	1.5% or less	Stereo modulation at 98MHz 60dB μ V
Distortion factor adjustment	T202	TP210, TP212	Minimam distortion	Stereo modulation at 98MHz 60dB μ V

※ Perform the above adjustment only when the distortion factor check exceeds 1.5%.

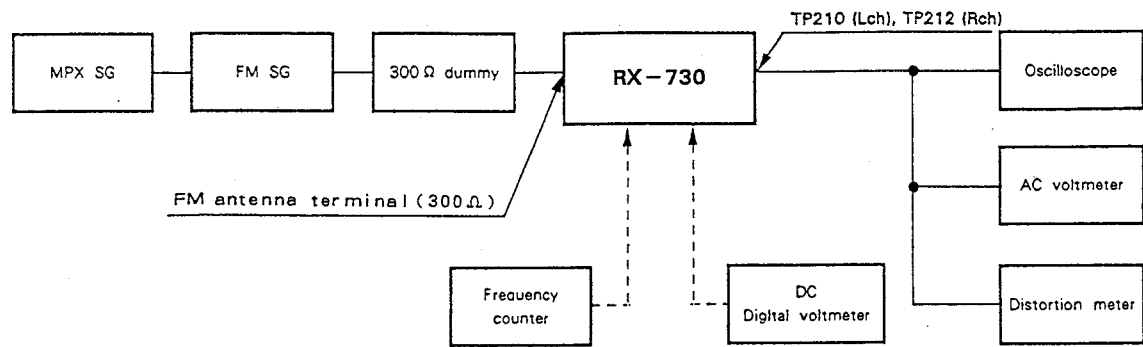


Fig. 5-5 FM adjustment wiring diagram

5.2.3 AM Tuner adjustment

- Adjustment point are as shown in Fig. 5-1.
- Make the wire connections as shown in Fig. 5-6.
- Set the function to AM

AM

Item	Adjustment location	Measuring location	Adjustment valuen	Conditions
TUNED IND lighting level adjustment	R232	※ CN "TUNED"	60dBμV/m or less	Standard modulation at 1000 kHz.

※10kΩ are applied to the "TUNED" terminal (+B = 5V).
TUNED IND lights up at "L" level.

NOTE: Separate the R232 if out of specification.

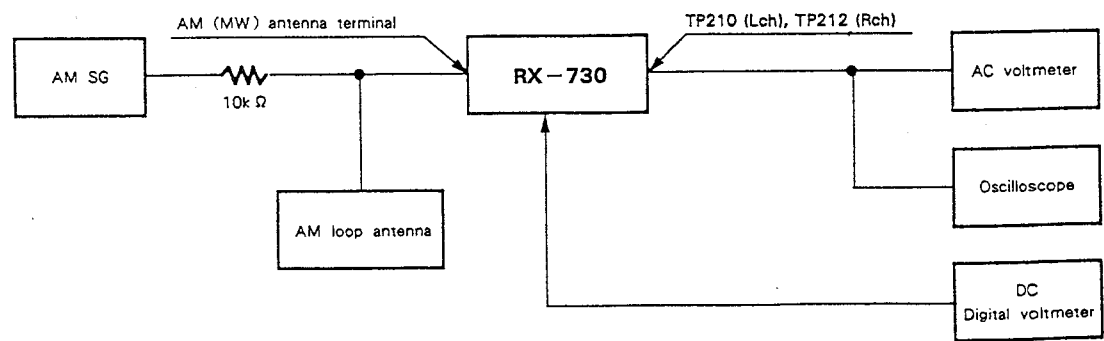


Fig. 5-6 AM adjustment wiring diagram

6. IC INFORMATION

SYSTEM CONTROL MICRO COMPUTER (PD4269)

•Terminal function

No.	Terminal Name	I/O	Function	Active
1	Sr	DP	Segment r	—
2	Sn	DP	Segment n	—
3	Ss	DP	Segment s	—
4	St	DP	Segment t	—
5	AC50/60	I	AC pulse input	—
6	SCK	I	Serial clock input	
7	SO	O	Serial data output	—
8	SI	I	Serial data input	—
9	RMT	I	SR signal input	—
10	STEREO	I	STEREO signal input	L: STEREO
11	(SIGNAL)	I	Not used	—
12	9k/10k	I	9k/10k Switching input	H: 9k
13	MUTE	O	MUTE output	H: ON
14	PLL CLK	O	PLL CLOCK output	
15	PLL DATA	O	PLL DATA output	
16	PLL STB	O	PLL STROBE output	H
17	MONO	O	MONO signal output	H: MONO
18	(SILENT)	O	Not used	—
19	TUNE	I	Tuning meter input	L: INPUT
20	CD PLAY	I	CD PLAY signal input	L: CD PLAY
21	KEY OUT 1	O	Key matrix output 1	
22	KEY OUT 2	O	Key matrix output 2	
23	KEY OUT 3	O	Key matrix output 3	

No.	Terminal Name	I/O	Function	Active
24	KEY OUT 4	O	Key matrix output 4	
25	KEY OUT 5	O	Key matrix output 5	
26	KEY OUT 6	O	Key matrix output 6	
27	KEY OUT 7	O	Key matrix output 7	
28	REM INH	O	Remote control inhibit output	
29	SR OUT	O	SR signal output	
30	X1	—	Connected to the 4.19MHz ceramic resonator.	
31	X2	—	Connected to the 4.19MHz ceramic resonator.	
32	Vss	—	GND	
33	XT1	—	GND	
34	N.C.	—	Not used	
35	KEY IN 1	I	Key matrix input 1	
36	KEY IN 2	I	Key matrix input 2	
37	KEY IN 3	I	Key matrix input 3	
38	KEY IN 4	I	Key matrix input 4	
39	RESET	I	Reset input	
40	6G	DP	Grid 6	
41	7G	DP	Grid 7	
42	8G	DP	Grid 8	
43	9G	DP	Grid 9	
44	10G	DP	Grid 10	
45	5G	DP	Grid 5	
46	4G	DP	Grid 4	
47	3G	DP	Grid 3	
48	2G	DP	Grid 2	

No.	Terminal Name	I/O	Function	Active
49	1G	DP	Grid 1	
50	Sa	DP	Segment a	
51	Sb	DP	Segment b	
52	Sc	DP	Segment c	
53	Sd	DP	Segment d	
54	Se	DP	Segment e	
55	Sf	DP	Segment f	
56	-27V	-	FL controller/driver power supply for pull-down resistor	
57	-4.1V	-	FL controller/driver power supply	
58	Sg	DP	Segment g	
59	Sm	DP	Segment m	
60	Sj	DP	Segment j	
61	Sp	DP	Segment p	
62	Sh	DP	Segment h	
63	Sk	DP	Segment k	
64	Vdd	-	+5V	

I : CMOS input
O : CMOS output
UN : Nch open drain output with pull-up resistor
DP : Pch open drain output with pull-down resistor

7. FOR RX – 730S/KU TYPE

- NOTES:
- Parts without part number cannot be supplied.
 - The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

7.1 CONTRAST OF MISCELLANEOUS PARTS

The RX – 730S/KU type is the same as the RX – 730/KU type with the exception of the following sections.

Mark	Symbol & Description	Part No.		Remarks
		RX – 730/KU type	RX – 730S/KU type	
	Packing case Operating instructions (English)	AHD1840	AHD1841 ARD1013	
	Remote control unit Battery cover	AXD1141 AZN1846	AXD1143	

7.2 REMOTE CONTROL UNIT (AXD1143)

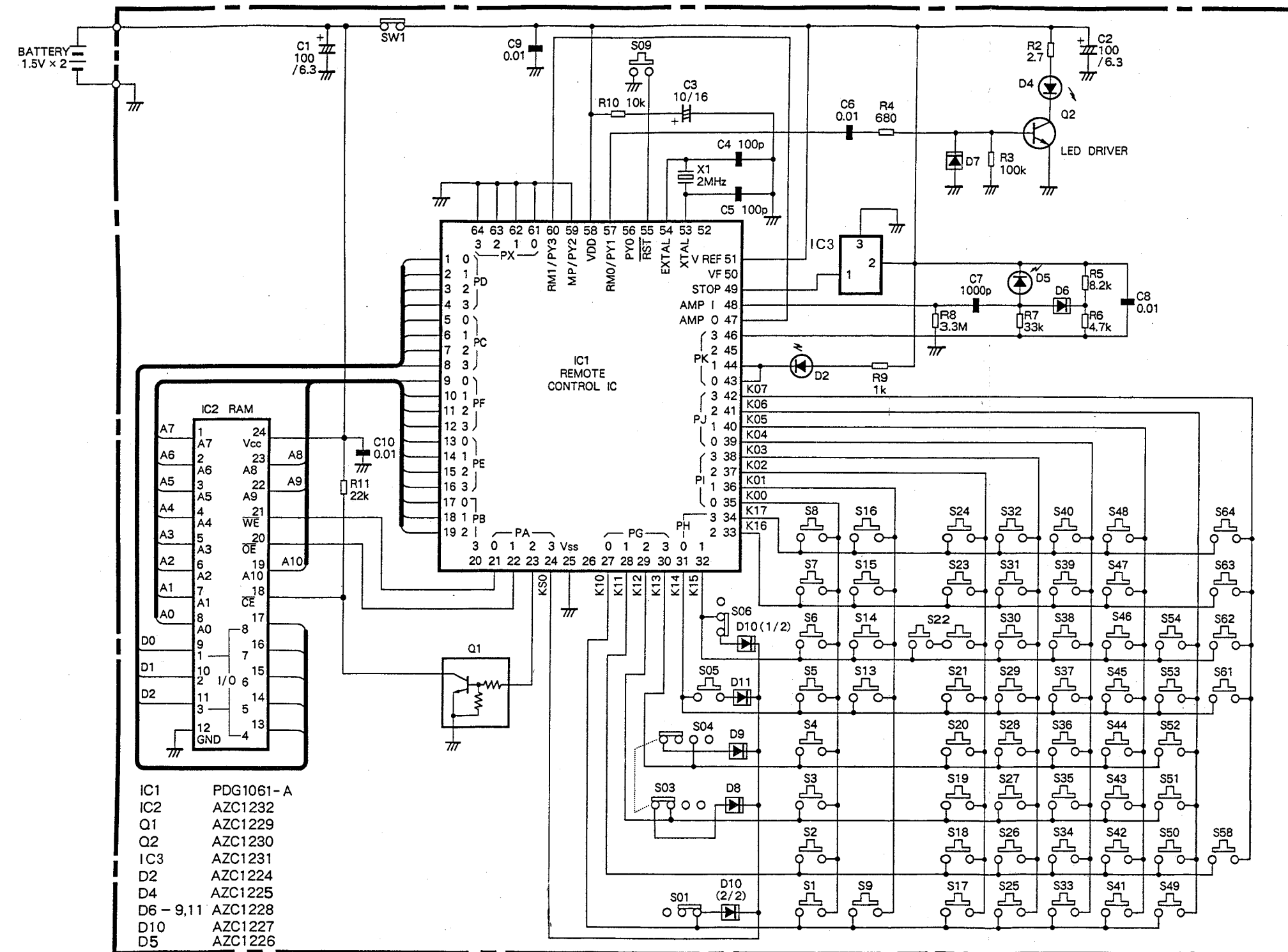
7.2.1 Schematic diagram

A

B

C

D



1. RESISTORS:
Indicated in Ω , 1/4W, 1/6W and 1/8W, $\pm 5\%$ tolerance unless otherwise noted k: k Ω , M: M Ω , (F): $\pm 1\%$, (G): $\pm 2\%$, (K): $\pm 10\%$, (M): $\pm 20\%$ tolerance.

2. CAPACITORS:
Indicated in capacity (μF) / voltage (V) unless otherwise noted p: pF. Indication without voltage is 50V except electrolytic capacitor.

3. OTHERS:
→: Signal route.
⊗: Adjusting point.
The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
* marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

4. SWITCHES: (The underlined indicates the switch position)
SW1: REMOTE POWER
S01: AUDIO/VIDEO

	SR	RECALL	USE	LEARN
S03	ON	OFF	OFF	OFF
S04	OFF	OFF	OFF	ON

S05: M - CLR
S06: SUR/AMP
S09: RESET

S1: AMP
S2: TV POWER
S3: VCR
S4: SLEEP AMP/TV
S5: V/AUX
S6: TAPE
S7: TUNER/VCR1
S8: PHONO/VCR2
S9: CD/VDP
S13: PGM
S14: DISC/DISPLAY
S15: $\blacktriangleleft$ /CHP/FR - TM
S16: $\blacktriangleright$ SEARC
S17: $\blacktriangleleft$
S18: $\blacktriangleleft$
S19: $\blacktriangleleft$
S20: $\blacktriangleleft$
S21: $\blacktriangleleft$
S22: (REC)
S23: $\blacktriangleleft$
S24: $\blacktriangleleft$
S25: $\blacktriangleleft$ TV/VCR TAPE (DECK II) /VCR
S26: $\blacktriangleleft$
S27: $\blacktriangleleft$
S28: $\blacktriangleleft$
S29: $\blacktriangleleft$ TV
S30: $\blacktriangleleft$ VDP
S31: $\blacktriangleleft$ VCR TAPE (DECK I) /VCR
S32: $\blacktriangleleft$ CH -
S33: $\blacktriangleleft$ CH +
S34: CD + 10
S35: 1 - 12/13 - 24/TV ANT
S36: BAND/CICLE
S37: TV DISPLAY
S38: CHANNEL +
S39: CHANNEL -
S40: 1/13
S41: 2/14
S42: 3/15
S43: 4/16
S44: 5/17
S45: 6/18
S46: 7/19
S47: 8/20
S48: 9/21
S49: 0/10/22
S50: 11/23/MEMORY
S51: 12/24/CLEAR
S52: TV FUNCTION
S53: TV VOL +
S54: TV VOL -
S55: AUDIO SOURCE
S56: VIDEO FUNCTION
S57: SURROUND MODE
S58: MUTING
S61: MASTER VOLUME +
S62: MASTER VOLUME -
S63: SUR MODE
S64: DELAY

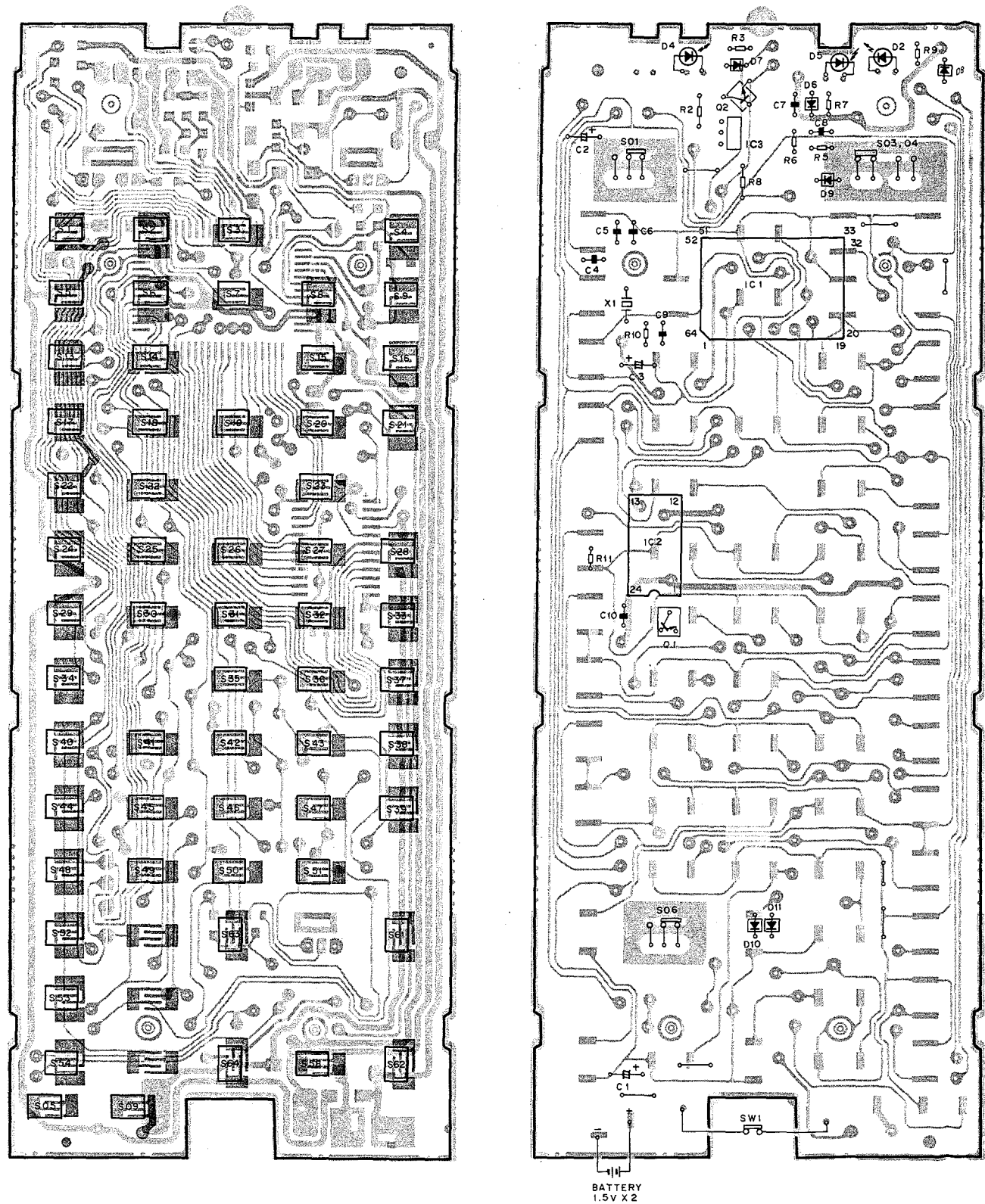
A

B

C

D

7.2.2 P.C.board pattern



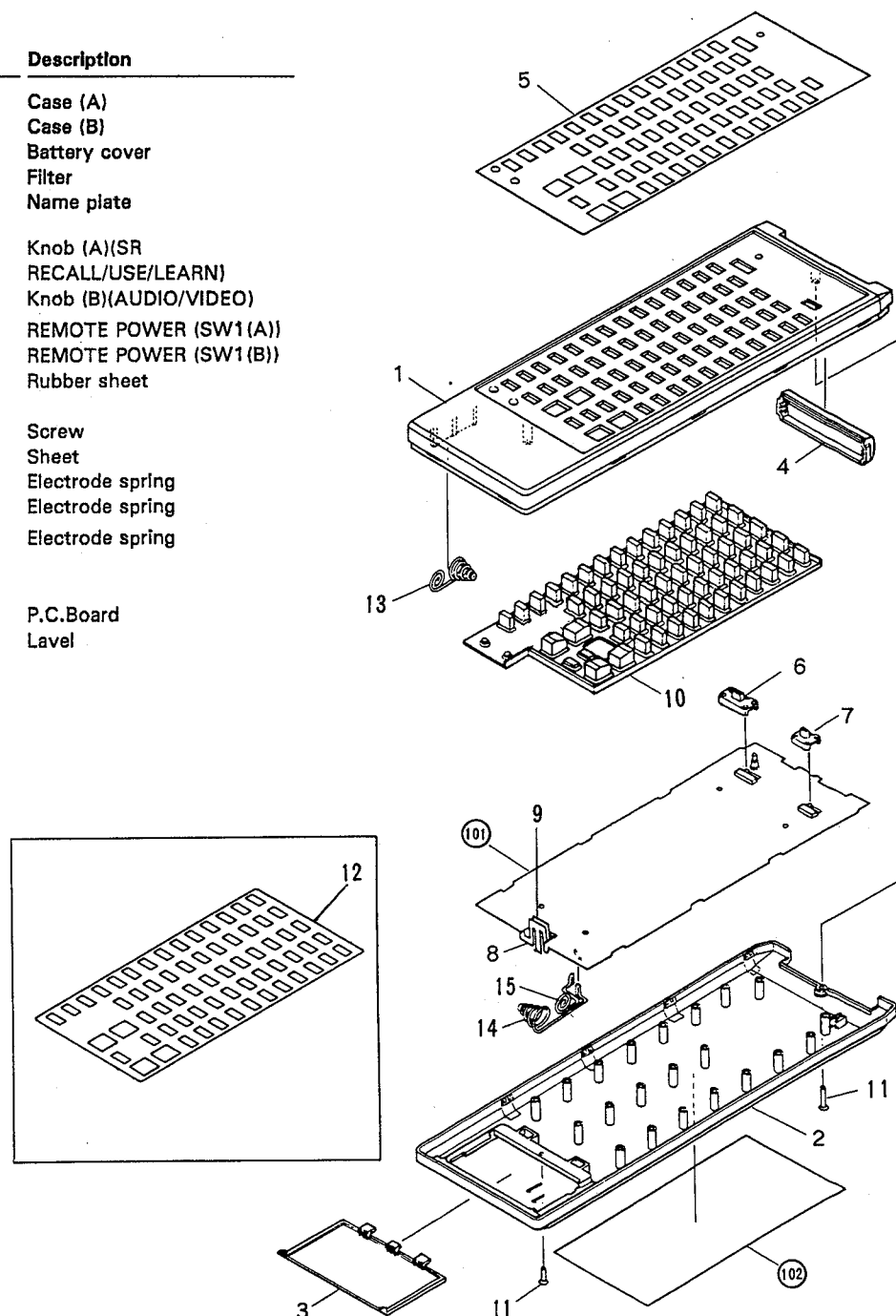
7.2.3 Exploded views and parts list

NOTES:

- Parts without part number cannot be supplied.
- The $\triangle$ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Parts List of Exterior

Mark	No.	Parts No.	Description
	1	AZA1968	Case (A)
	2	AZA1969	Case (B)
	3	AZA1970	Battery cover
	4	AZA1139	Filter
	5	AZA1242	Name plate
	6	AZA1142	Knob (A)(SR RECALL/USE/LEARN)
	7	AZA1143	Knob (B)(AUDIO/VIDEO)
	8	AZA1144	REMOTE POWER (SW1(A))
	9	AZA1177	REMOTE POWER (SW1(B))
	10	AZA1243	Rubber sheet
	11	AZA1146	Screw
	12	AZA1152	Sheet
	13	AZB1268	Electrode spring
	14	AZB1269	Electrode spring
	15	AZB1270	Electrode spring
101			P.C.Board
102			Lavel



7.2.4 Electrical parts list

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω	56×10^1	561.....	RD1/4PS $\square$ $\square$ $\square$ J
47k Ω	47×10^3	473.....	RD1/4PS $\square$ $\square$ $\square$ J
0.5 Ω	0R5.....		RN2H $\square$ $\square$ $\square$ K
1 Ω	010.....		RS1P $\square$ $\square$ $\square$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω	562×10^1	5621.....	RN1/4SR $\square$ $\square$ $\square$ F
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SEMICONDUCTORS

Mark	Symbol & Description	Part No.
	IC1	PDG061 - A
	IC2	AZC1232
	IC3	AZC1231
	Q1	AZC1229
	Q2	AZC1230
	D2	AZC1224
	D4	AZC1225
	D5	AZC1226
	D6-D9,D11	AZC1228
	D10	AZC1227

SWITCHES

Mark	Symbol & Description	Part No.
	S01,S06 Slide switch (AUDIO/VIDEO,SUR/AMP)	AZS1073
	S03,S04 Slide switch (SR RECALL/USE/LEARN)	AZS1074
	SW1 (A) REMOTE POWER	AZA1144
	SW1 (B) REMOTE POWER	AZS1177

CAPACITORS

Mark	Symbol & Description	Part No.
	C1,C2 (100 μ F/6V)	AZC1253
	C3 (10 μ F/16V)	AZC1254
	C4,C5 (100pF)	AZC1222
	C6,C8-C10 (0.01 μ F)	AZC1220
	C7 (1000pF)	AZC1221

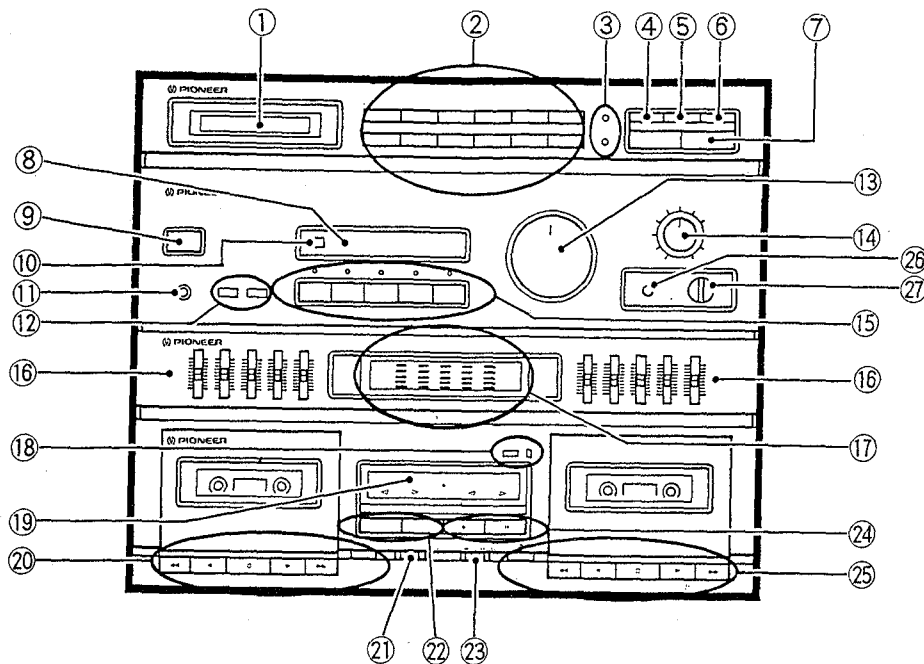
RESISTORS

Mark	Symbol & Description	Part No.
	R2 (2.7 Ω)	AZC1219
	R3 (100k Ω)	AZC1210
	R4 (680 Ω)	AZC1217
	R5 (8.2k Ω)	AZC1214
	R6 (4.7k Ω)	AZC1215
	R7 (33k Ω)	AZC1211
	R8 (3.3M Ω)	AZC1218
	R9 (1k Ω)	AZC1216
	R10 (10k Ω)	AZC1213
	R11 (22k Ω)	AZC1212

OTHER

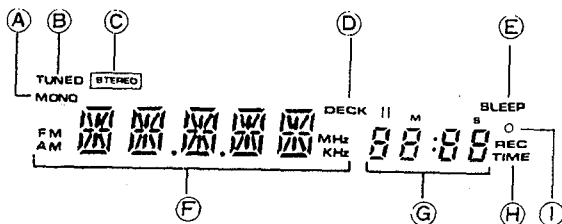
Mark	Symbol & Description	Part No.
	X1 Ceramic resonator (2.0MHz)	AZC1223

8. PANEL FACILITIES



TUNER SECTION

① Display section



A MONO indicator

Lights when the FM MONO switch is set to ON. When this indicator is lit, FM stereo broadcasts are reproduced monaurally.

B TUNED indicator

Lights when a broadcast is received and turned in well.

C STEREO indicator

Lights when an FM stereo broadcast is received (FM MONO switch is set to OFF).

D DECK II indicator

Lights when deck II is recording.

E SLEEP indicator

Indicates that the sleep timer is activated.

F Frequency display

Shows received broadcast frequency. Also gives scrolling display of main function status.

FM and MHz light: FM reception.

AM and kHz light: AM reception.

Messages will be displayed when setting time and when turning the power ON/OFF.

G Time display

This shows the present time and during recording on deck II, it shows the elapsed recording time.

H DECK II REC TIME indicator

Lights when deck II is recording.

I Remote control indicator

Flashes when a command is being received from the remote control unit.

② STATION CALL switches

These are used to recall preset broadcasting stations and to preset the station.

③ Time switches

Used for starting the clock adjustment.

④ FM MONO switch

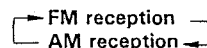
Normally, the MONO indicator remains off. However, it may not be possible to tune in a desired FM station because it is too far away or because its signals are too weak. In cases like these, press the switch to set the reception to the monaural mode (MONO indicator lights) and tune in the station. The program of an FM stereo broadcast will be heard in mono. This switch will not function for AM reception. The FM MONO setting is memorized along with station frequency when presetting a station.

⑤ MEMORY switch

This switch is used to memorize stations. When the switch is pressed, the frequency display will flash. To memorize the frequency of any station, press one of the STATION CALL switch while the frequency indicator is flashing.

⑥ BAND selector switch (FM/ AM)

This is used to select the band of the desired station. The bands change alternately each time the switch is pressed.



⑦ -, + switches

[During tuning]

These are used for locating stations.

Used "-" switch for lower, and "+" switch for higher frequencies.

[During time setting]

Used for adjusting the clock.

AMPLIFIER SECTION

⑧ MULTI-ROOM REMOTE indicator

Blinks when receiving signals from the Multi-room remote control unit.

⑨ POWER STANDBY/ON switch

ON: When set to the ON position, power is supplied and the unit becomes operational.

STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness.
(The tuner section display shows only the time.)

Disconnect the power cord from the power outlet when you do not plan to use the cassette tape deck receiver for a long period of time.

The cassette tape deck receiver has a backup function, so it will return to the original status when the power cord is unplugged and soon again plugged into the power outlet.

⑩ REMOTE SENSOR window

⑪ PHONES jack

This is a "standard plug-type jack" for headphones.

⑫ SPEAKERS A/B switches ON /OFF

[ON]: Depressed position: Sound is heard from the speaker systems.

[OFF]: Released position: No sound is heard from the speaker systems.

NOTE:

When the speaker system is connected to only one speaker terminal (A or B) and both A and B selector switches are ON, there will be no sound.

Turn ON only the selector to which the speaker system is connected.

⑬ VOLUME control/indicator

The volume is increased when this control is turned clockwise, decreased when turned counterclockwise. When operating with the remote control unit, the control automatically turns clockwise when "+" is pressed, counterclockwise when "-" is pressed.

⑭ BALANCE control

Usually set this control to the central position. If turned counterclockwise, the volume of the right channel will decrease. If turned clockwise, the volume of the left channel will decrease.

⑮ FUNCTION switches/indicators

The indicators light for the specified functions.

GRAPHIC EQUALIZER SECTION

⑯ GRAPHIC EQUALIZER controls

⑰ SPECTRUM ANALYZER display

CASSETTE DECK SECTION

- The cassette deck receiver is provided with an automatic tape selector function.

Deck I NORMAL/CrO₂/METAL

Deck II NORMAL/CrO₂

⑱ DECK II COUNTER and reset switch

3-digit display measures tape travel on deck II.

⑲ Indicators

Direction (<, >): Show direction of tape travel.
Blinks during DECK II PAUSE mode.

REC (or ○): Lights when recording. Flashes when copying a tape.

Slow flashing = Normal copy

Rapid flashing = High speed copy

⑳ Deck I Operation switches

 EJECT Ejection

▶(PLAY: FWD) For playing back a tape in the forward mode.
The FUNCTION selector switches to TAPE.
(AUTO FUNCTION)

◀(PLAY: REV) For playing back a tape in the reverse mode.
The FUNCTION selector switches to TAPE.
(AUTO FUNCTION)

■(STOP) For stopping the tape.

▶▶(FAST) Fast forward in forward mode, rewind in reverse mode.

◀◀(FAST) Rewind in forward mode, fast forward in reverse mode.

㉑ DOLBY* NR switch

Set to activate noise reduction system. Use to play back tapes recorded using Dolby B NR.

- Tapes recorded using Dolby B NR should always be played back with the noise reduction system on. Sound quality will be adversely affected if they are played back with the system off, or if tapes recorded using a different noise reduction system are played back with the Dolby B NR system on.

- It is recommended that tapes recorded using Dolby B NR be so marked on the label. This will help to prevent incorrect setting of the noise reduction switch during playback.

*

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"Dolby" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

㉒ COPY MODE switches

These switches are used to select the copy mode.

HIGH High speed copying (double-speed, halftime copying)

NORMAL Normal speed copying

㉓ REV (REVERSE) MODE switch

Switch position		During playback	During recording
RELAY PLAY	REC 	Plays both tape sides. When one deck finishes playback, the other deck begins playback of both tape sides for 6 times. If there is a tape in only one deck, then that deck continuously plays both sides of the tape for 6 times.	Records on one side (Deck II only).
REC 	PLAY 	Plays both tape sides for 6 times.	Records on side (Deck II only).

㉔ DECK II switches

REC (●) To set to recording standby mode.

Recording begins when you press the PLAY switch (< or >).

PAUSE (■) Temporarily stops tape travel. Cancels pause mode when pressed again or press the PLAY switch.

㉕ DECK II Operation switches:

Same as Deck I operation switches ⑲.

㉖ MIC jack (Multi-voltage model only)

㉗ MIC MIXING level control (Multi-voltage model only)

REMOTE CONTROL UNIT FACILITIES

Range of remote control

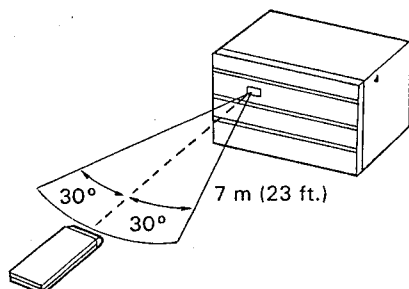
When the remote control unit is pointed at the REMOTE SENSOR window on the deck receiver and any of its keys is pressed, the cassette deck receiver and other components can be operated by remote control.

Distance: Within a range of about 7 meters from the REMOTE SENSOR window.

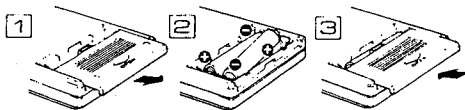
Angle: Within approx. 30 degrees from the center of the REMOTE SENSOR window.

Remote control will not be possible if there is an obstacle between the remote control unit and the REMOTE SENSOR window.

Performance of the remote control unit is adversely affected in the presence of strong fluorescent light. Keep such lights away, specially from the sensor window.



PUTTING BATTERIES INTO THE REMOTE CONTROL UNIT



- [1] Remove the cover of the battery compartment on the rear side of the remote control unit.
- [2] Take out the two size "AAA" [IEC R03 (UM-4)] dry cell batteries supplied and load them into the battery compartment, correctly matching the plus (+) and minus (-) as indicated inside the compartment.
- [3] Replace the cover of the battery compartment.

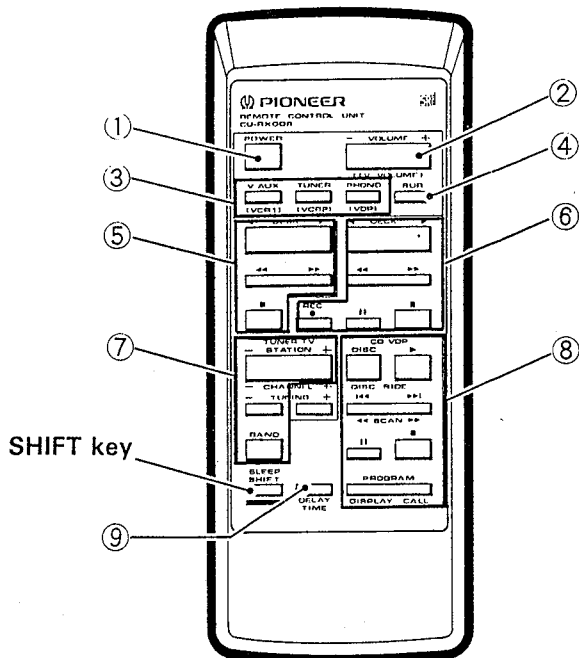
Cautions for handling dry cell batteries.

Misusing dry cell batteries can result in electrolyte leakage or explosions. Bear in mind the following points for getting the most out of your batteries.

- When loading the batteries into the battery compartment, make sure the plus (+) and minus (-) polarities correspond to the markings on the compartment.
- Even though they may be the same shape, batteries come with different voltage ratings. Do not use different types of batteries together. Use only the same kind of batteries.
- Do not mix up new batteries and used batteries but replace all the batteries at the same time.

NOTE:

RX-730S is provided with Programmable Remote Control Unit. For operation of the Programmable Remote Control Unit refer to the separate Operating Instructions.



① POWER key

② VOLUME key: - (down), + (up)

Increases/decreases the sound volume of the unit.

[When used with the SHIFT key]

Increases/decreases the sound volume of TV set.

③ FUNCTION selector keys

For selecting V/AUX (VIDEO/AUX), TUNER or PHONO.

[When used with the SHIFT key]

Can be used to select VCR1, VCR2 or VDP functions.

NOTE:

This function can be used with Pioneer products with [] mark which are provided with the input selector for VCR1, VCR2 and VDP. With a system where the optional AV surround processor VSP-333 is installed, its video input selector can be used. Precautions on using the system in combination with VSP-333.

- When selecting V/AUX, the mode of the input selector of VSP-333 does not change to AUDIO. Set to AUDIO by using the INPUT SELECTOR of VSP-333.
- When VCR1, VCR2 or VDP is selected, the mode of the FUNCTION selector of this unit changes to VIDEO/AUX.

④ SUR (surround) key

For selecting surround mode.

⑤ DECK I operation keys

- ▶ Forward playback (AUTO FUNCTION)
- ◀ Reverse playback (AUTO FUNCTION)
- ▶▶ Fast (reverse)
- ◀◀ Fast (forward)
- Stop

⑥ DECK II operation keys

- ▶ Forward playback (AUTO FUNCTION)
- ◀ Reverse playback (AUTO FUNCTION)
- ▶▶ Fast (forward)
- ◀◀ Fast (reverse)
- Stop
- REC Recording standby
- || Pause

⑦ TUNER/TV keys

STATION:

- Before operation, memorize broadcast stations in the STATION CALL switches.

+ Station change in order in the upward direction

- Station change in order in the downward direction

TUNING: Same as main unit TUNING switch.

BAND: Same as main unit BAND switch.

[When used with the **SHIFT** key]

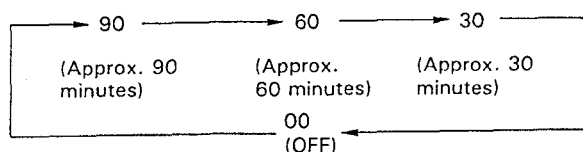
CHANNEL:

Increases/decreases (+/-) the channel number of TV.

SLEEP:

Sets the sleep timer. Each time you press this key, the setting changes as shown here. The current setting is shown on the tuner display.

Power turns off when your set time has elapsed.



If you press the SLEEP key during SLEEP operation, the display will show the time remaining till power turns off.

⑧ CD/VDP operation keys

▶ CD Playback (AUTO FUNCTION)

DISC CD DISC selection

■ CD Stop

|| CD Pause

◀◀, ▶▶ CD Track search

PROGRAM CD Program

[When used with the **SHIFT** key]

▶ VDP playback

DISC SIDE VDP disc side selection

◀◀, ▶▶ Scan: ▶▶ forward, ◀◀ reverse

|| VDP Pause

DISPLAY CALL ... VDP Display ON/OFF

⑨ DELAY TIME

Use with the **SHIFT** key.

For operating surround delay time selection.

